

## PARTICIPATING SCHOOL TOURNAMENT INFORMATION 2023-24 MHSAA TENNIS

#### 1a. TOURNAMENT FORMAT - (Lower Peninsula)

The MHSAA Lower Peninsula Boys and Girls Tennis Tournaments are conducted in four equal Divisions by enrollment. Schools are assigned to one of eight Regionals in each Division by MHSAA staff based on geography and travel considerations. Regional assignments are included in the "**Tournament Notification Form**" sent to all member schools and posted on the MHSAA website.

**BALL FEE** – Participating schools are responsible for a \$75 "ball fee" at the MHSAA L.P. Regional and L.P. Finals tournament. This "ball fee" does NOT replace indoor costs associated with indoor facility rental in the event of inclement weather at the Regional level. At the L.P. Regional level, each participating school will send a \$75 check made out to the Regional host school by the Opt-Out Due Date. For those schools that qualify for the L.P. Finals, an additional \$75 check must be sent to the Finals venue host once your team has qualified. No "ball fee" will be required for individual qualifiers at #1 Singles or #1 Doubles.

MHSAA Tournament competition at the Regional level will be conducted on a team basis, with teams and/or individuals advancing to the MHSAA Finals. A regular season team shall consist of four singles and four doubles matches. All matches shall be best of three, COMAN tie-break sets. Each match won by a team member by play or default will count as one point toward a team or total score. The team score is based on the total cumulative score of each team entry.

The winning and runner-up team from each Regional, and any team which scores **18** or more points in a draw of 16, will qualify for the Finals level. (Any school with **10** or more points in a draw of eight will qualify for the Finals level.) Any No. 1 Flight singles winner or runner-up who is not a member of a qualified team, will qualify to the Final Meet. Any No. 1 Flight doubles winner or runner-up who is not a member of a qualified team, whose No. 1 singles was a flight champ or flight runner-up, will also qualify for the Final Meet. All individual entries will be drawn into the #1 Flight with the #1 Flight team players and will compete for individual honors. The MHSAA Seed Committee will determine all seeds for the Finals.

Boys L.P. Regional Tournament Dates Girls L.P. Regional Tournament Dates

Oct. 11, 12, 13 or 14, 2023 May 15, 16, 17 or 18, 2024

Boys L.P. Finals Tournament Dates Girls L.P. Finals Tournament Dates

Oct. 20-21, 2023 May 31- June 1, 2024

Finals are generally conducted on the last two of the three dates listed. Finals may take place THR & FRI if facility conflicts are an issue.

Boys L.P. Finals Locations Girls L.P. Finals Locations

Division 1 – Midland
Division 2 – Grand Rapids
Division 3 – Kalamazoo
Division 4 – Holland
Division 1 – Midland
Division 2 – (TBD)
Division 3 – Kalamazoo
Division 4 – Holland

#### 1b. TOURNAMENT FORMAT – (Upper Peninsula)

The MHSAA Upper Peninsula Boys and Girls Tennis Tournaments will place schools in two equal Divisions by enrollment. Finals assignments are included in the "Tournament Notification Form" that is posted on the MHSAA website.

There is no Regional level for the U.P. competition.

MHSAA Tournament competition at the Finals level will be conducted on a team basis. A regular season team shall consist of four singles and four doubles matches. All matches shall be the best of three COMAN tie-break sets. Each match won by a team member by play or default will count as one point toward a team or total score. The team score is based on the total cumulative score of each team entry.

Girls U.P. Finals Date

Oct. 4-7, 2023

(Date determined by the Finals Manager)

Boys U.P. Finals Date May 29 - June 1, 2024

**Girls U.P. Finals Locations** 

Division 1 – Marquette
Division 2 – Iron Mountain

Boys U.P. Finals Locations Division 1 – Marquette Division 2 – Iron Mountain

#### 2. TOURNAMENT PROCEDURES

#### **REGIONALS (L.P.)**

**Entry, Eligibility, Ranking -** Only a bona fide team (minimum of four players) may participate in the MHSAA Regional Tournament. All teams will play four Singles and four Doubles matches. Individuals will be limited to competition in EITHER singles or doubles play. (A bona fide team means the school has an actual schedule for the current school year and has participated in four or more matches during the current school year.)

A player must be a bona fide member of the school team (has represented their school in a high school match) before the entry deadline. The player's name must be on the Eligibility List <u>and</u> Regional Lineup Sheet when submitted.

All coaches MUST play their BEST player at No.1 singles.

All team members are to be ranked in position according to their ability (singles-flight one, two, three, or four OR doubles-flight one, two, three, or four). Doubles teams shall be ranked according to the ability of the two players as a team and not as individuals. (See 8A)

A player must have played a majority of <u>all</u> matches played at that flight in which they are entered for Regional play. If there are extenuating circumstances (i.e., illness, injury during the season), <u>ranked ability</u> shall take precedence over majority.

Every effort must be made to establish the lineup early in the season. <u>The moving of players to various positions is strongly discouraged.</u>

#### **STACKING**

Stacking is having players not in ranked order as defined by the MHSAA rules. Any lineup changes must be verified by current challenge matches.

Challenge Match – A coach needs written verification to explain his/her lineup and must use a consistent format throughout the portion of the season when challenges are allowed.

Definition of stacking – Players are **NOT** in ranked order. Why is stacking wrong?

- a. It is against the stated rules and policies of the MHSAA.
- b. It violates the true spirit of athletic competition.

Is it stacking, playing your second-best player in doubles?

No, as long as it is done as a permanent position. If not, what is wrong with having your second-best player switch back and forth between singles and doubles?

Switching back and forth:

- a. Complicates seeding for Regionals and Final
- b. Is unfair to your own players/team

c. Becomes a guessing game with your lineup with opposing coaches

Moving players lower in the lineup because of discipline is not permissible.

Utilization of Players – When you have less than 12 team members on your published team roster;

- **4** players play No. 1, 2, 3, 4 singles
- 5 players play No. 1, 2, 3 singles No. 1 doubles
- 6 players play No. 1, 2, 3, 4 singles No. 1 doubles
- 7 players play No. 1, 2, 3 singles No. 1, 2 doubles
- 8 players play No. 1, 2, 3, 4 singles No. 1, 2 doubles
- **9** players play No. 1, 2, 3 singles No. 1, 2, 3 doubles
- 10 players play No. 1, 2, 3, 4 singles No. 1, 2, 3 doubles
- 11 players play No. 1, 2, 3 singles No. 1, 2, 3, 4, doubles

**Seeding** – A place is provided on the Regional Lineup Sheet to designate those players whom you feel deserve seeding consideration. Place a check before their name and <u>attach</u> the Player Season Report (PSR – generated by TennisReporting.com) to the Regional Lineup Sheet. You are encouraged to be present at the Regional Seeding Meeting if at all possible. The season records and total number of matches, as indicated on the Regional Lineup Sheet, **must** be updated with current information at the Seeding Meeting or prior to it.

<u>NOTE</u>: Season records include only regular season contests. No scrimmage or non-interscholastic play results are to be considered. Any player in the tournament may be given consideration for seeding.

<u>Player Season Report</u> – A **Player Season Report (PSR)** – generated by **TennisReporting.com**, must be presented with entry materials. The Player Season Report (PSR) is considered part of the entry material and *must be* complete, accurate, and legible. A \$50 late fee may be assessed by the Regional Manager if the Player Season Report (PSR) does not meet all requirements. A separate sheet MUST be presented for each player and doubles team entered. Defaults are to be part of the player's permanent record and included on the Player Season Report (PSR). The reason for the default must be stated on the sheet.

The Player Season Report (PSR) must be updated online (at TennisReporting.com) daily as the season progresses. The Player Season Report (PSR) should reflect matches played as current as possible without missing the deadline. Make sure the Player Season Report (PSR) is accurate and includes all matches: this includes all regularly scheduled matches of your high school team. These contracted matches should be counted regardless of the scoring system used. Scrimmages or outside competition for the individual shall not be considered.

Substitutions – After the Regional Lineup Sheet has been received by the Tournament Manager, substitution is to be allowed only in the case of illness, injury, discipline, immediate family tragedy, or academic commitment (e.g., Advanced Placement test). A letter from the school must accompany the name of the substitution. The substitute must be placed into the same position as the person for whom the substitution is being made. Juggling the lineup is not permitted. If a substitution is to take place prior to the Opt-Out deadline time, a coach is expected to substitute by ranked order of ability. A major change in many of the flights is not permissible. If a substitute is used for a player in the Regionals and that team qualifies for the Finals level, the player for whom the substitution was made may represent the school in the Finals level in the original position of entry. In case of injury or illness, causing the player to terminate play, no substitute is allowed, and a default is awarded to the opponent. If a substitution is made after the Regional Tournament, for the allowable reasons, once the Final Draw is completed, the substitute is the player of record.

**Deadline to Make a Substitution at Regionals & FINALS** - At Regional and final tournaments, any substitution must be made before the end of the last scheduled coaches meeting prior to play. If there is a possibility of a seeded player not being able to play, the coach should notify the tournament manager in advance.

**Majority Rule Violation at Regionals** – The Regional committee has the authority to correct line-ups that do not meet the requirements of the majority rule. The school's coach in question should present information concerning extenuating circumstances to the committee while considering the matter.

A modified USTA point penalty system for lateness and violations will be used.

Warm-Up - The warm-up before each match shall not exceed 10 minutes - this includes the serve.

**Rest** – Between matches, a player or doubles team will receive at least 30 minutes. The time may be shortened if both coaches agree. Between the second and third set, a maximum of five minutes may be taken.

**Maximum Number of Matches for Contestants** – A player or doubles team may participate in no more than **117** games in a given day.

**Scoring** – Each match won by a team member by play or default will count as one point toward a team's total score (in case of a bye in the first round, a player must win the second-round match before that player receives a point for the bye). The team score is based on the total cumulative score of each team entry.

**Penalty for Unsportsmanlike Conduct After Match** – For flagrant unsportsmanlike conduct after a match is completed, the offending player will be defaulted and removed from the site as soon as authorized school personnel become available. This removal will be for the duration of the event (Regionals and Finals are considered one event). In addition, one point will be deducted from the player's team score. This rule will be in effect for all MHSAA Tennis Tournaments.

NOTE: If a player is defaulted from the Regional level, a substitution at his/her position is NOT allowed.

#### **FINALS**

The winning and runner-up team from each Regional, and any team which scores **18** or more points in a draw of 16, will qualify for the Finals level. (Any school with **10** or more points in a draw of eight will qualify for the Finals level.) Any No. 1 Flight singles winner or runner-up who is not a member of a qualified team, will qualify to the Final Meet. Any No. 1 Flight doubles winner or runner-up who is not a member of a qualified team, whose No. 1 singles was a flight champ or flight runner-up, will also qualify for the Final Meet. All individual entries will be drawn into the #1 Flight with the #1 Flight team players and will compete for individual honors. The MHSAA Seed Committee will determine all seeds for the Finals.

It will not be necessary for coaches of qualified teams or individual entries to forward a Finals Meet Regional Lineup Sheet; however, each coach must update the **Player Season Report (PSR)**. The Regional Lineup Sheet and Eligibility List previously submitted, along with the <u>updated</u> Player Season Report (PSR), will be forwarded with the meet results by the Regional Manager.

**Player Position in Finals Meet** – Members of qualified teams must compete in the same Flight at the Finals level as at the Regional level.

**Substitution** – If a substitute was used for a player in the Regionals and that team qualifies for the Finals, the player for whom the substitution was made may participate in the Finals. At the Finals level, a substitution may be allowed only in the case of illness or injury, discipline, immediate family tragedy, or academic commitment. **The school must submit in writing the reason and the name of the substitute. After the Final Draw, no additions can be made, and the substitute is the player of record.** 

**Finals Meet Seeding** – Any coach, who feels their player/players should be considered for a seeded position at the Finals MUST have an updated information sheet in the hands of the closest Area Seeding Director by his/her required time and date. This information <u>must</u> be in writing. A phone call with pertinent information will assist the Director. However, your presence at the Sunday afternoon area meeting is strongly encouraged.

At the Final tournament, if there are (21) to (23) #1 singles players in the draw, up to (7) players may be seeded. If there are (24+), up to (8), players may be seeded.

**Finals Meet Draw** – The Seeding Meeting will be conducted by Area Seeding Directors and Finals Level Managers.

**Enforcement of the Majority of Matches Rule** – If a player does not meet the requirements of the Majority Rule at the Regional, the team's lineup will be adjusted so that it complies. The Final Seed Committee has the authority to correct a lineup that is deemed in violation of the Majority Match Rule.

**Tournament Substitution & Redraw Rule** – When a seeded player withdraws on the day of the tournament, the tournament manager will adjust the new seeds so that they are on the proper line for their seed. This would include the provisional seed. The seeds will be adjusted, but the bracket will <u>not</u> be re-drawn (playing against the same team more than two times is allowed if dictated by the seed adjustment).

**Penalty for Unsportsmanlike Conduct After Match** — For flagrant unsportsmanlike conduct after a match is completed, the offending player will be defaulted and removed from the site as soon as authorized school personnel become available. This removal will be for the duration of the event (Regionals and Finals are considered one event). In addition, one point will be deducted from the player's team score. This rule will be in effect for all MHSAA Tennis Tournaments.

NOTE: If a player is defaulted for unsportsmanlike conduct, no substitution is allowed.

Use of Indoor Facilities – MHSAA, in cooperation with the respective tournament manager, will authorize the use of indoor facilities under adverse weather conditions. If indoor facilities are available and approval is given by the MHSAA, the tournament may be moved indoors. The MHSAA will pay for the courts at the FINALS ONLY.

**Coaching Supervision** – No individual or team may participate in an MHSAA Tournament event UNLESS ACCOMPANIED TO THE EVENT BY THE COACH, administrator, or appointee of the school.

**Number of Allowable Coaches at Finals** - Each school is allowed three (3) coaches on the first day of the Final tournament. If additional sites (beyond 2) are used, one coach may be added for each additional site. On the 2nd day of the tournament, only two coaches are allowed. All coaches <u>MUST</u> meet MHSAA requirements.

#### 3. OPT OUT POLICIES, ELIGIBILITY LISTS, ROSTERS

The Regional Lineup Sheet, the Player Season Report (PSR), and Master Eligibility List must be properly filled out and sent to the Regional Manager by the Opt-Out Due date:

Girls U.P. 9-30-23 Boys L.P. 10-4-23 Girls L.P. 5-8-24 Boys U.P. 5-24-24

#### Entry materials need to be submitted to the Regional Manager by the deadline.

The materials include Regional Lineup Sheet, Master Eligibility, and Player Season Report (PSR) for all Singles and Doubles Teams. Please include the list of all registered coaches (to be used during postseason competition) with the Entry Materials.

#### 4. DRAW PROCEDURES

Regional managers will notify participating schools regarding the date, time, and location of the Seeding Meeting. It is strongly recommended that each coach attend the meeting; however, no players or parents are invited. Coaches must have sent complete information on each player; this includes results from the entire MHSAA season. Once the Seeding Meeting is over, the draw and seeds are set. No protest is allowed to the decisions of the seeding committee regarding either seeds or placement of seeds at the Regional or Final Tournament. Once the committee adjourns, there are no appeals, protests, or changes of the seeds or placement of the seeds.

#### 5. TIME SCHEDULE

Regional Managers determine the time schedule for their event. Finals managers determine the time schedule for their event.

#### 6. AWARDS

**Regionals** – The winning team (total points) will be awarded a team trophy, and team members will receive medals. Medals will be presented to each flight winner and runner-up. In the case of a tie (two or more teams) for first place, a duplicate trophy and medals should be ordered through the MHSAA.

**Finals** – The winning team and the runner-up team (total points) will receive trophies. Individual medals will be awarded to the winner, runner-up, and semifinalists in each flight. Members of the championship and runner-up teams will be awarded a team medal.

Duplicate trophies and medals will be awarded in case of a tie at the champion or runner-up position. In the case of a tie (two or more teams) for first place, a runner-up trophy will not be awarded.

There shall be no awards of any kind made to any person or group except those provided by the MHSAA for those players competing in MHSAA tournaments.

Extra Medal Order Form - CLICK HERE

#### 7. LIMITS OF COMPETITION

Teams and individuals may have a maximum of **16 competition dates** during the regular season. **A player or doubles team may participate in no more than 117 games in a given day**.

There are no weekly limits. MHSAA tournament dates do not count against season maximums. A contestant in any sport shall not compete on two different teams on the same date in the same sport.

#### 8. FINANCES

Participating schools will assume all costs of the tournament. This includes transportation, lodging, meals, and indoor courts (if used) at the Regional level. Admission may be charged at the Finals tournaments if the facility is conducive.

**BALL FEE** – Participating schools are responsible for a \$75 "ball fee" at the MHSAA L.P. Regional and L.P. Finals tournament. This "ball fee" does NOT replace indoor costs associated with indoor facility rental in the event of inclement weather at the Regional level. At the L.P. Regional level, each participating school will send a \$75 check made out to the Regional host school by the Opt-Out Due Date. For those schools that qualify for the L.P. Finals, an additional \$75 check must be sent to the Finals venue host once your team has qualified. No "ball fee" will be required for individual qualifiers at #1 Singles or #1 Doubles.

#### 9. OFFICIALS SELECTION/ASSIGNMENTS

Tournament management will secure qualified personnel and USTA officials for the Final.

#### 10. PLAYING RULES/ADAPTATIONS

Rules of the USTA will apply to all tournament competitions with all provisions as stated in the coach's manual.

#### 11. MEDIA

For information on credentials, drones, locker room privacy policy, microphones, photographers, flash photography, postgame interviews, press box, results, streaming (audio and video), and videotaping, go to this <a href="Media/Streaming Information PDF">Media/Streaming Information PDF</a>.

Souvenir Program Policies - NA

#### **Merchandising/Promotion Policies**

Use of MHSAA logo – The MHSAA logo and acronym are registered trademarks. MHSAA tournament trophy designs are also copyrighted. Use of these legally protected marks requires written permission of the MHSAA. Contact the MHSAA Communications Director for additional information.

**Postgame Interviews** – Coaches should also be readily available to meet with the media shortly after the conclusion of a contest. It is recommended that approximately five minutes after the game, managers provide a location other than the team locker rooms for postgame interviews with coaches and/or players the coach may

wish to designate for interviews. Locker room access should never be allowed to media. Inasmuch as many media outlets are often on deadline following contests, interviews should be granted before any lengthy team meetings occur.

#### 12. SPORTSMANSHIP

When a student is disqualified during a contest for flagrant or unsportsmanlike conduct, that student shall be withheld by his/her school for the remainder of that day of competition and for at least the next day of competition for that team.

When a coach is disqualified during a contest for unsportsmanlike conduct, that coach shall be prohibited by his/her school from coaching for the remainder of that day of competition and from coaching at or attending at least the next day of competition for that coach's team.

In individual sports, a student or coach who is disqualified in the first round of a tournament that progresses over more than one day may not participate on any subsequent day in that tournament because the student has not qualified for additional rounds. This includes MHSAA tournaments in tennis and individual wrestling.

Failure of the school for any reason to enforce this regulation will prohibit the school from entry in the next MHSAA tournament for that sport, or from the remainder of the current tournament if the disqualification occurs during an MHSAA tournament or during the last regular-season contest. Disqualifications from one season carry over to the next season in that sport for undergraduates and coaches, or the next season in any sport for seniors. If the playing rules for a sport specify an additional penalty or more rapid progression, or use of such a progression for other violations, the playing rules apply.

Any coach who is disqualified for unsportsmanlike conduct two or more times during a season, any player who is disqualified for unsportsmanlike conduct three or more times during a season, and any coach or player who is ejected for spitting at, hitting, slapping, kicking, pushing or intentionally and aggressively physically contacting an official at any time during that season, is not eligible to participate in the MHSAA tournament for that season. If the tournament disqualifying ejection for that individual occurs during the MHSAA tournament, that player or coach is ineligible for the remainder of that tournament.

If a team is removed from competition in protest, the contest is forfeited to the opponent, and the coach and principal of the removed team must appear before the Executive Committee to indicate why additional action should not be taken. The Executive Committee may also require the appearance of personnel from other schools and game officials.

If the coach is ejected from the contest and an assistant coach, or an assigned school representative is not available to continue as the coach, the event is terminated and forfeited to the opponent.

When a contest is interrupted or ends prematurely because of a breakdown of proper sportsmanship and whether or not the on-site officials forfeit the contest to one team, one or both schools may be subjected to any or all, but not limited to, the following: censure, probation with competition, probation without competition, forfeiture, loss of privilege of revenue sharing, expulsion. In addition, it may be required of one or both schools that their coaches and administrators appear before the Executive Committee to indicate why additional action should not be taken.

#### 13. WEATHER POLICIES, SUSPENSIONS, POSTPONEMENTS

When teams are delayed in arriving at tournament sites because of inclement weather, management is encouraged to consider delaying competition for a few hours and/or playing games/matches in brackets of teams/individuals that are present and prepared to participate. If, after a reasonable delay, fewer than 60% of the scheduled teams/individuals have not arrived, the tournament must be rescheduled. If 60% or more of the scheduled teams/individuals are present, the tournament is to be conducted on the day scheduled.

#### 14. INJUNCTION, RESTRAINING ORDER, PROTESTS

If an injunction or restraining order is served or presented at an MHSAA tournament site and such purports to require the eligibility of or participation by a student or team which a school and/or the MHSAA has ruled to be ineligible under MHSAA regulations, the on-site tournament manager is to suspend the entire competition (team competition) or events in which that student is intending to participate (individual competition). If the meet has

begun, it shall be completed.

Protests will not be reviewed by the MHSAA. All disputes must be decided at the site before the game proceeds. The umpires will make the final decision regarding game events. The Tournament Manager will resolve all next game concerns.

#### 15. TOBACCO AND ALCOHOL POLICY

Use of alcohol or tobacco, including e-cigarettes or other smoking devices, is prohibited at MHSAA tournament events by players, coaches and spectators. Managers should stress in coaches' meetings that they are not to use tobacco at the tournament venue.

#### 16. YOUTH PROTECTION POLICY

During the MHSAA Tournament events, the MHSAA expects all designated managers, volunteer or paid staff assisting in the event, officials or any other personnel to follow local school district policy and state statute regarding the mandatory reporting of child abuse, bullying, hazing and sexual harassment. A report of such activity shall be made to legal authorities and to the MHSAA Executive Director or his designee.

#### 17. UNMANNED AERIAL VEHICLE (DRONE) POLICY

The use of unmanned aerial vehicles ("UAV"), also known as drones, is prohibited for any purpose by any persons at MHSAA tournament venues. Tournament management shall refuse admission or entry to anyone attempting to use a UAV; and if necessary, tournament management shall remove anyone attempting to use a UAV and/or confiscate the UAV until the event has been completed. For purposes of this policy, a UAV is any aircraft without a human pilot aboard the device.

An exception to this policy may be made in specific cases for MHSAA broadcast partners, provided the management of the tournament facility permits the presence of UAVs for broadcast purposes under the control of the MHSAA.

#### 18. LOCKER ROOM PRIVACY POLICY

Using devices of any kind to capture or transmit images is strictly prohibited in locker rooms, dressing areas, training rooms, weigh-in rooms, showers, restrooms, or other areas where there is an expectation of privacy during MHSAA tournament events. Tournament managers or athletic directors that discover such use should move immediately to have the device removed and inform the head coach or athletic director of the identity and nature of the activity of the person involved.

#### 19. SPECTATOR POLICIES

The following general policies apply to spectators at MHSAA Tournament events. Tournament managers may also have additional school, facility, or institutional restrictions and/or policies.

- Banners are allowed with Meet Manager approval.
- · Noisemakers are not allowed
- Smoking is not allowed at the tournament site.
- Spectator Videotaping Spectators may tape but are not to interfere with the view of other spectators or news media personnel covering the activity. A manager is not required to provide electrical hook-ups; or tripod space and may arrange spectator videotaping from a designated location(s).
- The policies of the local host site shall prevail with respect to pets/animals. Without local host policy, animals or pets shall not be permitted to enter MHSAA tournament venues, including spectator and team areas. However, properly marked, or documented service animals that are leashed or harnessed at all times may accompany spectators paying admission or attending with other approved team or school personnel. Individuals who bring service animals are asked to bring their own waste disposal bags and request special seating in advance of the event if this is needed.

#### 20. RETURN TO ACTIVITY & POST-CONCUSSION CONSENT FORM - CLICK HERE

## MICHIGAN HIGH SCHOOL ATHLETIC ASSOCIATION, INC.

## 2023-24 Tennis Regional (L.P.) or Final (U.P.) Tournament Lineup

(CITY)			(SCHOOL)				Hi	gh Sch	ool
(CITY)			(SCHOOL)						
			SINGLES		TAL	RECORD IN THIS FLIGHT			
X FOR					TOTAL		ORD		
SEED	FLIGHT	FIRST	LAST	GRADE	MATCHES	WON	LOST	WON	LOST
	15								
	25								
	35								
	45								
			OOUBLES				TAL ORD	RECORD IN THIS FLIGHT	
X FOR	FLIGHT	FIRST	LAST	GRADE	TOTAL	WON	LOST	WON	LOST
SEED	TEIGITI	TINST	LAST	GRADE	MATCHES	WON	1031	WON	1031
	10								
	1D								
	2D								
	3D								
	4D								
YES	NO	Ma and william to an							
		<u>we are willing</u> to ass	sume our fair share of i	idoor court costs ii	weather ut	bes not	permit	outdoo	play
PRINT - HE	EAD COAC	Н	_ () HOME # OR CELL #	E-MAIL					
			( )						
PRINT - AS	SSISTANT	COACH	HOME # OR CELL #	E-MAIL					
I / WE C	ONFIRM	THAT ALL OF THE AB	OVE INFORMATION IS T	RUE & ACCURATE.					
					PRINC	IPAL O	R AD SI	GNATU	IRE



# REGIONAL & FINAL TENNIS COACHING STAFF

SC	HOOL:	
	1. HEAD Coach:	
		Email:
		Phone:
	2. Asst Coach:	
		Email:
		Phone:
	3. Asst Coach:	
		Email:
		Phone:

\*\*All coaches listed <u>MUST</u> either be a faculty coach or non-faculty status while being registered with the MHSAA. Any assistant or subvarsity coach (paid or volunteer) <u>MUST</u> complete the same tennis rules meeting requirement as the head coach.

### **Principal or AD Signature**

By checking the boxes above and signing this form I attest that <u>ALL</u> coaches listed above have completed the appropriate steps to be eligible to coach at all MHSAA post season tennis events.

## MAIL / FAX / EMAIL TO REG (L.P.) or FINAL (U.P.) MGR BY OPT-OUT DUE DATE

Girls U.P.	Boys L.P.	Girls L.P.	Boys U.P.
9-30-23	10-4-2023	5-8-24	5-24-24

#### **MODEL POLICY FOR MANAGING HEAT & HUMIDITY**

#### Adopted March 22, 2013

- 1. Thirty minutes prior to the start of an activity, and again 60 minutes after the start of that activity, take temperature and humidity readings at the site of the activity. Using a digital sling psychrometer is recommended Record the readings in writing and maintain the information in files of school administration. Each school is to designate whose duties these are: generally, the athletic director, head coach, or certified athletic trainer.
- 2. Factor the temperature and humidity into the Heat Index Calculator and Chart to determine the Heat Index. If a digital sling psychrometer is being used, the calculation is automatic.

#### If the Heat Index is below 95 degrees:

#### All Sports

- Provide ample amounts of water. This means that water should always be available, and athletes should be able to take in as much water as they desire.
- Optional water breaks every 30 minutes for 10 minutes in duration.
- o Ice-down towels for cooling.
- Watch/monitor athletes carefully for necessary action.

#### If Heat Index is 95 to 99 degrees:

#### All Sports

- Provide ample amounts of water. This means that water should always be available, and athletes should be able to take in as much water as they desire.
- Optional water breaks every 30 minutes for 10 minutes in duration.
- Ice-down towels for cooling.
- Watch/monitor athletes carefully for necessary action.

#### Contact sports and activities with additional equipment:

- Ice-down towels for cooling.
- Contact sports and activities with additional equipment:
  - o Helmets and other possible equipment removed while not involved in contact.
- · Reduce the time of outside activity. Consider postponing practice to later in the day.
- Recheck temperature and humidity every 30 minutes to monitor for increased Heat Index.

#### If Heat Index is 99 to 104 degrees:

#### All Sports

- Provide ample amounts of water. This means that water should always be available, and athletes should be able to take in as much water as they desire.
- Mandatory water breaks every 30 minutes for 10 minutes in duration.
- Ice-down towels for cooling.
- Watch/monitor athletes carefully for necessary action.
- Alter uniform by removing items if possible.
- Allow for changes to dry t-shirts and shorts.
- Reduce time of outside activity as well as indoor activity if air conditioning is unavailable.
- o Postpone practice to later in the day.

#### • Contact sports and activities with additional equipment:

- Helmets and other possible equipment removed if not involved in contact or necessary for safety.
- o If necessary for safety, suspend activity.
- Recheck temperature and humidity every 30 minutes to monitor for increased Heat Index.

#### If Heat Index is 99 to 104 degrees:

#### All Sports

 Stop all outside activity in practice and/or play and stop all inside activity if air conditioning is unavailable.

Note: When the temperature is below 80 degrees,

there is no combination of heat and humidity that will result in the need to curtail activity.

- A Heat Index Chart appears on the next page-

## **HEAT INDEX CHART**

Temperature (Fahrenheit)

	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
100	84	87	91	95	99	103	107	112	116	121	126	132	137	143	149	155	161	168	174	181	188	195
	84	87	91	94	98	102	106	111	116	120	125	131	136	142	147	153	160	166	172	179	186	193
	84	87	90	94	98	102	106	110	115	120	124	130	135	140	146	152	158	164	171	177	184	191
	84 83	87 87	90 90	94 93	97 97	101	105 105	110 109	114 113	119 118	124 123	129 128	134 133	139 138	145 144	151 149	157 155	163 161	169 167	176 174	182 180	189 187
	83	86	90	93	97	100	104	108	113	117	122	127	132	137	142	148	154	160	166	172	179	185
	83	86	89	93	96	100	104	108	112	116	121	126	131	136	141	147	152	158	164	170	177	183
	83	86	89	92	96	99	103	107	111	116	120	125	130	135	140	145	151	157	162	169	175	181
	83	86	89	92	95	99	103	106	111	115	119	124	129	133	139	144	149	155	161	167	173	179
	83	86	89	92	95	98	102	106	110	114	118	123	127	132	137	143	148	154	159	165	171	178
	83	86	88	91	95	98	102	105	109	113	117	122	126	131	136	141	147	152	158	164	170	176
	83	85 85	88 88	91 91	94	98 97	101	105 104	109 108	113 112	117 116	121 120	125 125	130 129	135 134	140 139	145 144	151 149	156 155	162 160	168 166	174 172
	83	85	88	91	94	97	100	104	107	111	115	119	124	128	133	138	143	148	153	159	164	170
	83	85	88	90	93	96	100	103	107	110	114	118	123	127	132	136	141	146	152	157	163	168
	83	85	87	90	93	96	99	102	106	110	113	117	122	126	130	135	140	145	150	155	161	167
	83	85	87	90	93	96	99	102	105	109	113	117	121	125	129	134	139	144	149	154	159	165
	82	85	87	90	92	95	98	101	105	108	112	116	120	124	128	133	137	142	147	152	158	163
	82 82	85 84	87 87	89 89	92	95 94	98 97	101	104	108 107	111	115 114	119 118	123 122	127 126	132 131	136 135	141 140	146 144	151 149	156 155	162 160
	82	84	86	89	91	94	97	100	103	106	110	113	117	121	125	129	134	138	143	148	153	158
	82	84	86	89	91	94	96	99	102	106	109	113	116	120	124	128	133	137	142	146	151	157
	82	84	86	88	91	93	96	99	102	105	108	112	115	119	123	127	131	136	140	145	150	155
77	82	84	86	88	90	93	96	98	101	104	108	111	115	118	122	126	130	135	139	144	148	153
	82	84	86	88	90	93	95	98	101	104	107	110	114	117	121	125	129	133	138	142	147	152
	82	84	85	88	90	92	95	97	100	103	106	109	113	116	120	124	128	132	136	141	145	150
	82 82	83	85 85	87 87	90 89	92 91	94 94	97 96	100 99	103	106	109	112	116	119	123	127	131 130	135 134	140	144 143	149 147
	82	83 83	85 85	87	89	91	93	96	99	102	105 104	108 107	111	115 114	118 117	122 121	126 125	129	134	138 137	143	147
	81	83	85	87	89	91	93	96	98	101	104	107	110	113	116	120	124	127	131	136	140	144
	81	83	85	86	88	90	93	95	98	100	103	106	109	112	116	119	123	126	130	134	138	143
69	81	83	84	86	88	90	92	95	97	100	102	105	108	111	115	118	122	125	129	133	137	141
	81	83	84	86	88	90	92	94	97	99	102	105	108	111	114	117	121	124	128	132	136	140
	81	83	84	86	88	90	92	94	96	99	101	104	107	110	113	116	120	123	127	131	135	139
	81	82	84	86	87	89 89	91 91	93 93	96 95	98 98	101	103	106 105	109 108	112 111	115 114	119 118	122 121	126 125	129 128	133 132	137 136
	81	82 82	84 84	85 85	87 87	89	91	93	95	97	99	102	105	108	110	114	117	120	123	127	131	135
	81	82	84	85	87	88	90	92	94	97	99	101	104	107	110	113	116	119	122	126	130	133
	81	82	83	85	86	88	90	92	94	96	98	101	103	106	109	112	115	118	121	125	128	132
61	81	82	83	85	86	88	90	91	93	96	98	100	103	105	108	111	114	117	120	124	127	131
	81	82	83	84	86	88	89	91	93	95	97	100	102	105	107	110	113	116	119	123	126	129
	81	82	83	84	86	87	89	91	93	95	97	99	102	104	107	109	112	115	118	122	125	128
	81	82 81	83 83	84 84	85 85	87 87	89 88	90 90	92 92	94 94	96 96	99 98	101	103	106 105	109 108	111	114 113	117 116	120 119	124 123	127 126
	80	81	83	84	85	86	88	90	92	93	95	98	100	102	105	107	110	113	115	118	122	125
	80	81	82	84	85	86	88	89	91	93	95	97	99	101	104	106	109	112	114	117	120	124
	80											00	0.0	404	103	106	108	444	444	440	440	123
53	00	81	82	83	85	86	87	89	91	93	94	96	99	101	103	100	100	111	114	116	119	
	80	81	82	83	84	86	87	89	90	92	94	96	98	100	103	105	107	110	113	116	118	121
52	80 80	81 81	82 82	83 83	84 84	86 86	87 87	89 88	90 90	92 92	94 94	96 96	98 98	100 100	103 102	105 104	107 107	110 109	113 112	116 115	118 117	121 120
52 51	80 80 80	81 81 81	82 82 82	83 83 83	84 84 84	86 86 85	87 87 87	89 88 88	90 90 90	92 92 91	94 94 93	96 96 95	98 98 97	100 100 99	103 102 101	105 104 104	107 107 106	110 109 108	113 112 111	116 115 114	118 117 116	121 120 119
52 51 50	80 80 80 80	81 81 81 81	82 82 82 82	83 83 83 83	84 84 84 84	86 86 85 85	87 87 87 86	89 88 88 88	90 90 90 89	92 92 91 91	94 94 93 93	96 96 95 95	98 98 97 97	100 100 99 99	103 102 101 101	105 104 104 103	107 107 106 105	110 109 108 108	113 112 111 110	116 115 114 113	118 117 116 115	121 120 119 118
52 51 50 49	80 80 80 80 80	81 81 81 81 81	82 82 82 82 82	83 83 83 83	84 84 84 84 84	86 86 85 85 85	87 87 87 86 86	89 88 88 88	90 90 90 89 89	92 92 91 91 91	94 94 93 93 93	96 96 95 95 94	98 98 97 97 96	100 100 99 99 98	103 102 101	105 104 104	107 107 106 105 105	110 109 108 108 107	113 112 111 110 109	116 115 114 113 112	118 117 116 115 115	121 120 119 118 117
52 51 50 49 48	80 80 80 80	81 81 81 81	82 82 82 82	83 83 83 83	84 84 84 84	86 86 85 85	87 87 87 86	89 88 88 88	90 90 90 89	92 92 91 91	94 94 93 93	96 96 95 95	98 98 97 97	100 100 99 99	103 102 101 101 100	105 104 104 103 102	107 107 106 105	110 109 108 108	113 112 111 110	116 115 114 113	118 117 116 115	121 120 119 118
52 51 50 49 48 47 46	80 80 80 80 80 80 80 80	81 81 81 81 81 81 81 80	82 82 82 82 82 81 81	83 83 83 83 83 82 82 82	84 84 84 84 84 84 83 83	86 86 85 85 85 85 85 85	87 87 86 86 86 86 86	89 88 88 88 88 87 87	90 90 90 89 89 89 88 88	92 92 91 91 91 90 90	94 94 93 93 93 92 92 92 91	96 96 95 95 94 94 93 93	98 98 97 97 96 96 95	100 100 99 99 98 97 97 97	103 102 101 101 100 100 99 98	105 104 104 103 102 102 101 100	107 107 106 105 105 104 103 103	110 109 108 108 107 106 105	113 112 111 110 109 109 108 107	116 115 114 113 112 111 110	118 117 116 115 115 114 113	121 120 119 118 117 116 115
52 51 50 49 48 47 46 45	80 80 80 80 80 80 80 80 80	81 81 81 81 81 81 81 80 80	82 82 82 82 82 81 81 81	83 83 83 83 83 82 82 82 82	84 84 84 84 84 83 83 83	86 86 85 85 85 85 85 85 84	87 87 87 86 86 86 86 86	89 88 88 88 88 87 87 87	90 90 90 89 89 89 88 88	92 92 91 91 91 90 90 90	94 94 93 93 92 92 92 91 91	96 96 95 95 94 94 93 93	98 98 97 97 96 96 95 95	100 100 99 99 98 97 97 97 96 96	103 102 101 101 100 100 99 98 98	105 104 104 103 102 102 101 100 100	107 107 106 105 105 104 103 103 102	110 109 108 108 107 106 105 105	113 112 111 110 109 109 108 107 106	116 115 114 113 112 111 110 109	118 117 116 115 115 114 113 112	121 120 119 118 117 116 115 114
52 51 50 49 48 47 46 45	80 80 80 80 80 80 80 80 80 80	81 81 81 81 81 81 80 80	82 82 82 82 81 81 81 81 81	83 83 83 83 83 82 82 82 82 82	84 84 84 84 84 83 83 83 83	86 86 85 85 85 85 85 85 84 84	87 87 87 86 86 86 86 86 86	89 88 88 88 87 87 87 87 87	90 90 90 89 89 89 88 88 88	92 92 91 91 91 90 90 90 89	94 94 93 93 92 92 92 91 91 91	96 96 95 95 94 94 93 93 93 92	98 98 97 97 96 96 95 95 94	100 100 99 99 98 97 97 96 96	103 102 101 101 100 100 99 98 98 98	105 104 104 103 102 102 101 100 100	107 107 106 105 105 104 103 103 102 101	110 109 108 108 107 106 105 105 104 103	113 112 111 110 109 109 108 107 106	116 115 114 113 112 111 110 109 109	118 117 116 115 115 114 113 112 111	121 120 119 118 117 116 115 114 114
52 51 50 49 48 47 46 45 44 43	80 80 80 80 80 80 80 80 80 80 80 79	81 81 81 81 81 81 81 80 80 80	82 82 82 82 81 81 81 81 81	83 83 83 83 82 82 82 82 82 82 82	84 84 84 84 84 83 83 83 83 83	86 86 85 85 85 85 85 85 84 84 84 84	87 87 86 86 86 86 86 86 85 85	89 88 88 88 87 87 87 87 87 86	90 90 90 89 89 89 88 88 88 88	92 92 91 91 91 90 90 90 89 89	94 94 93 93 92 92 92 91 91 91 90	96 96 95 95 94 94 93 93 93 92 92	98 98 97 97 96 96 95 95 94 94	100 100 99 99 98 97 97 96 96 96	103 102 101 101 100 100 99 98 98 98 97	105 104 104 103 102 102 101 100 100 99	107 107 106 105 105 104 103 103 102 101	110 109 108 108 107 106 105 105 104 103	113 112 111 110 109 109 108 107 106 106	116 115 114 113 112 111 110 109 109 108 107	118 117 116 115 115 114 113 112 111 110	121 120 119 118 117 116 115 114 114 113
52 51 50 49 48 47 46 45 44 43 42	80 80 80 80 80 80 80 80 80 80	81 81 81 81 81 81 80 80	82 82 82 82 81 81 81 81 81	83 83 83 83 83 82 82 82 82 82	84 84 84 84 84 83 83 83 83	86 86 85 85 85 85 85 85 84 84	87 87 87 86 86 86 86 86 86	89 88 88 88 87 87 87 87 86 86	90 90 90 89 89 89 88 88 88	92 92 91 91 91 90 90 90 89	94 94 93 93 92 92 92 91 91 91	96 96 95 95 94 94 93 93 93 92	98 98 97 97 96 96 95 95 94	100 100 99 99 98 97 97 96 96	103 102 101 101 100 100 99 98 98 98	105 104 104 103 102 102 101 100 100	107 107 106 105 105 104 103 103 102 101	110 109 108 108 107 106 105 105 104 103	113 112 111 110 109 109 108 107 106	116 115 114 113 112 111 110 109 109	118 117 116 115 115 114 113 112 111	121 120 119 118 117 116 115 114 114
52 51 50 49 48 47 46 45 44 43 42 41	80 80 80 80 80 80 80 80 80 80 79 79 79	81 81 81 81 81 81 80 80 80 80 80	82 82 82 82 81 81 81 81 81 81 81	83 83 83 83 82 82 82 82 82 82 82 82 82 82	84 84 84 84 84 83 83 83 83 83 83 83 83 82 82	86 86 85 85 85 85 85 84 84 84 84 84 83	87 87 86 86 86 86 86 85 85 85 85 85	89 88 88 88 87 87 87 87 86 86 86 86	90 90 90 89 89 89 88 88 88 88 87 87 87	92 92 91 91 91 90 90 90 89 89 89 88 88	94 94 93 93 92 92 92 91 91 91 90 90 89	96 96 95 95 94 94 93 93 92 92 92 92 91 91	98 98 97 97 96 96 95 95 95 94 93 93 93	100 100 99 99 98 97 97 96 96 96 95 95	103 102 101 101 100 100 99 98 97 97 96 96	105 104 104 103 102 102 101 100 100 99 99 98 98 97	107 107 106 105 105 104 103 103 102 101 101 100 100	110 109 108 108 107 106 105 105 104 103 103 102 101	113 112 111 110 109 109 108 107 106 106 105 104 104	116 115 114 113 112 111 110 109 109 108 107 106 106	118 117 116 115 115 114 113 112 111 110 109 109 108	121 120 119 118 117 116 115 114 114 113 112 111 110
52 51 50 49 48 47 46 45 44 43 42 41 40 39	80 80 80 80 80 80 80 80 80 80 80 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80	82 82 82 82 81 81 81 81 81 81 81 81	83 83 83 83 82 82 82 82 82 82 82 82 82 82 82 82	84 84 84 84 84 83 83 83 83 83 83 83 82 82	86 86 85 85 85 85 85 84 84 84 84 84 83 83	87 87 86 86 86 86 86 85 85 85 85 85 84	89 88 88 88 87 87 87 87 86 86 86 86 86	90 90 90 89 89 89 88 88 88 87 87 87 87	92 92 91 91 91 90 90 90 89 89 88 88 88	94 94 93 93 92 92 92 91 91 91 90 90 89	96 96 95 95 94 94 93 93 93 92 92 92 91 91 91	98 98 97 97 96 96 95 95 94 93 93 93 92	100 100 99 99 98 97 97 96 96 95 95 94 94	103 102 101 101 100 100 99 98 98 97 97 96 96	105 104 104 103 102 102 101 100 100 99 99 98 98 97	107 107 106 105 105 104 103 103 102 101 101 100 100 99	110 109 108 108 107 106 105 105 104 103 103 102 101 101	113 112 111 110 109 109 108 107 106 106 105 104 104 103	116 115 114 113 112 111 110 109 109 108 107 106 106 105	118 117 116 115 115 114 113 112 111 110 109 109 108 107	121 120 119 118 117 116 115 114 114 113 112 111 110 109
52 51 50 49 48 47 46 45 44 43 42 41 40 39 38	80 80 80 80 80 80 80 80 80 80 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80	82 82 82 82 81 81 81 81 81 81 81 81 81 81	83 83 83 83 82 82 82 82 82 82 82 82 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82	86 86 85 85 85 85 84 84 84 84 84 83 83 83	87 87 86 86 86 86 85 85 85 85 85 84 84	89 88 88 88 88 87 87 87 87 86 86 86 86 85 85	90 90 90 89 89 89 88 88 88 88 87 87 87 87 86	92 92 91 91 91 90 90 90 89 89 88 88 88 88	94 94 93 93 93 92 92 92 91 91 91 90 90 89 89	96 96 95 95 94 94 93 93 93 92 92 92 91 91 91 90	98 98 97 97 96 96 95 95 94 94 93 93 93 92 92 91	100 100 99 99 98 97 97 96 96 96 95 95 94 93	103 102 101 101 100 100 99 98 98 97 97 96 96 95 95	105 104 104 103 102 101 100 100 99 99 98 98 97 97	107 107 106 105 105 104 103 103 102 101 101 100 99 98	110 109 108 108 107 106 105 105 104 103 103 102 101 101 100	113 112 111 110 109 108 107 106 106 105 104 104 103 102	116 115 114 113 1112 111 110 109 109 108 107 106 106 105 104	118 117 116 115 115 114 113 112 111 110 109 109 108 107 106	121 120 119 118 117 116 115 114 114 113 112 111 110 109 108
52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37	80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80	82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81	83 83 83 83 82 82 82 82 82 82 82 81 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82 82 82	86 86 85 85 85 85 85 84 84 84 84 83 83 83 83	87 87 86 86 86 86 85 85 85 85 85 84 84	89 88 88 88 88 87 87 87 86 86 86 86 85 85	90 90 90 89 89 89 88 88 88 87 87 87 87 86 86	92 92 91 91 91 90 90 90 89 89 88 88 88 88 88	94 94 93 93 92 92 92 91 91 90 90 90 89 89	96 96 95 95 94 94 93 93 93 92 92 92 91 91 91 90 90	98 98 97 97 96 96 95 95 94 94 93 93 93 93 93 92 92 91	100 100 99 99 98 97 97 96 96 95 95 94 94 93	103 102 101 101 100 100 99 98 98 97 97 96 96 95 95	105 104 104 103 102 102 101 100 100 99 98 98 98 97 97 96	107 107 106 105 105 104 103 102 101 101 100 100 99 98 98	110 109 108 108 107 106 105 105 104 103 103 102 101 101 100 99	113 112 111 110 109 109 108 107 106 106 105 104 104 103 102 102	116 115 114 113 112 111 110 109 109 108 107 106 106 105 104 104	118 117 116 115 115 114 113 112 111 110 109 109 108 107 106 106	121 120 119 118 117 116 115 114 113 112 111 110 109 108 108
52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37	80 80 80 80 80 80 80 80 80 80 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80	82 82 82 82 81 81 81 81 81 81 81 81 81 81	83 83 83 83 82 82 82 82 82 82 82 82 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82	86 86 85 85 85 85 84 84 84 84 84 83 83 83	87 87 86 86 86 86 85 85 85 85 85 84 84	89 88 88 88 88 87 87 87 87 86 86 86 86 85 85	90 90 90 89 89 88 88 88 87 87 87 87 87 86 86	92 92 91 91 91 90 90 90 89 89 88 88 88 88	94 94 93 93 93 92 92 92 91 91 91 90 90 89 89 89 88 88	96 96 95 95 94 94 93 93 92 92 92 91 91 91 90 90	98 98 97 97 96 96 95 95 94 94 93 93 93 92 92 91	100 100 99 99 98 97 97 96 96 96 95 95 94 93	103 102 101 101 100 100 99 98 98 97 97 96 96 95 95	105 104 104 103 102 102 101 100 100 100 99 98 98 98 97 97 96 96	107 107 106 105 105 104 103 103 102 101 101 100 99 98 98 97	110 109 108 108 107 106 105 105 104 103 103 102 101 101 100 99	113 112 111 110 109 109 108 107 106 105 104 104 103 102 102	116 115 114 113 112 111 110 109 109 108 107 106 106 105 104 104 103	118 117 116 115 115 114 113 112 111 110 109 109 108 107 106 105 104	121 120 119 118 117 116 115 114 113 112 111 110 109 108 108
52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35	80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80	82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82	86 86 85 85 85 85 84 84 84 84 83 83 83 83 83	87 87 87 86 86 86 86 86 85 85 85 85 84 84 84	89 88 88 88 87 87 87 87 86 86 86 86 85 85 85	90 90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86	92 92 91 91 91 90 90 90 89 89 88 88 88 88 87 87	94 94 93 93 92 92 92 91 91 91 90 90 90 89 89 89 88 88	96 96 95 95 94 94 93 93 92 92 92 91 91 91 90 90 90 90 89	98 98 97 97 96 96 95 95 94 94 93 93 93 92 92 91 91 90	100 100 99 98 97 97 96 96 96 95 95 94 93 93 93 93	103 102 101 101 100 100 99 98 97 97 96 96 95 95 95	105 104 104 103 102 102 101 100 99 99 98 97 97 96 96 95	107 107 106 105 105 104 103 103 102 101 101 100 99 98 98 97 97	110 109 108 108 107 106 105 105 104 103 102 101 101 100 100 99 99	113 112 111 110 109 109 108 107 106 106 105 104 103 102 102 101 100 100	116 115 114 113 112 111 110 109 108 107 106 105 104 104 103 102 102	118 117 116 115 115 114 113 1110 1109 109 109 107 106 106 105	121 120 119 118 117 116 115 114 113 112 111 110 109 108 108 107 106
52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 35	80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80	82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81	83 83 83 83 82 82 82 82 82 82 82 81 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82 82 82	86 86 85 85 85 85 85 84 84 84 84 83 83 83 83	87 87 86 86 86 86 85 85 85 85 85 84 84	89 88 88 88 88 87 87 87 86 86 86 86 85 85	90 90 90 89 89 88 88 88 87 87 87 87 87 86 86	92 92 91 91 91 90 90 90 89 89 88 88 88 88 88	94 94 93 93 93 92 92 92 91 91 91 90 90 89 89 89 88 88	96 96 95 95 94 94 93 93 92 92 92 91 91 91 90 90	98 98 97 97 96 96 95 95 94 94 93 93 93 93 93 92 92 91	100 100 99 99 98 97 97 96 96 95 95 94 94 93	103 102 101 101 100 100 99 98 98 97 97 96 96 95 95	105 104 104 103 102 102 101 100 100 100 99 98 98 98 97 97 96 96	107 107 106 105 105 104 103 103 102 101 101 100 99 98 98 97	110 109 108 108 107 106 105 105 104 103 103 102 101 101 100 99	113 112 111 110 109 109 108 107 106 105 104 104 103 102 102	116 115 114 113 112 111 110 109 109 108 107 106 106 105 104 104 103	118 117 116 115 115 114 113 112 111 110 109 109 108 107 106 105 104	121 120 119 118 117 116 115 114 113 112 111 110 109 108 108
52 51 50 49 48 47 46 45 44 43 42 41 40 39 33 37 36 35 34 33 34	80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 80 80 80	82 82 82 82 81 81 81 81 81 81 81 81 81 81 80 80 80 80	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81	84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 82	86 86 85 85 85 85 84 84 84 84 83 83 83 83 83 83 83 83 83 83 83	87 87 87 86 86 86 86 85 85 85 85 85 84 84 84 84 84 83 83	89 88 88 88 88 87 87 86 86 86 86 85 85 85 85 85	90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86	92 92 91 91 91 90 90 90 90 89 89 88 88 88 88 87 87 87	94 94 93 93 92 92 92 91 91 91 90 90 89 89 88 88 88 88 88	96 96 95 95 94 94 94 93 93 92 92 92 91 91 90 90 90 90 89 89 89 88	98 98 98 97 97 96 96 95 95 95 93 93 93 93 92 91 91 91 90 90	100 100 99 99 98 97 97 96 96 96 95 95 94 94 93 93 93 92 92 92	103 102 101 101 100 100 99 98 97 96 96 96 95 95 95 94 93 93	105 104 104 103 102 101 100 100 99 98 98 98 97 97 96 96 95 95 94	107 107 106 105 105 103 103 102 101 101 100 100 98 98 97 96 96 96	110 109 108 107 106 105 104 103 103 103 100 101 101 100 99 98 98 98 97	113 112 111 110 109 109 108 107 106 106 105 104 104 103 102 102 100 100 99 99 98	116 115 114 113 112 111 110 109 109 108 107 106 105 104 104 103 102 102 101 101	118 117 116 115 115 114 113 112 111 110 109 109 108 107 106 106 105 104 104 103 102 102	121 120 119 118 117 116 115 114 114 113 112 111 110 109 108 108 106 106 105
52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31	80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 80 80 80	82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 80 80 80 80 80 80 80 80	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 82 82 82	86 86 85 85 85 85 84 84 84 84 83 83 83 83 83 83 83 83 83 83 83 83 83	87 87 87 86 86 86 86 85 85 85 85 84 84 84 84 84 83 83 83 83	89 88 88 88 88 87 87 87 86 86 86 85 85 85 85 85 85 84 84	90 90 90 89 89 89 88 88 88 88 87 87 87 87 86 86 86 86 86 86 85 85	92 92 91 91 91 90 90 89 89 88 88 88 87 87 87 87 86 86 86	94 94 93 93 92 92 92 91 91 91 90 90 89 88 88 88 88 88 88 88	96 96 95 95 94 94 94 94 93 93 92 92 91 91 90 90 90 89 89 89 89 88 88	98 98 98 97 96 96 95 95 94 94 94 93 93 93 93 92 91 91 90 90 90 89	100 100 99 98 97 96 96 96 96 95 95 93 93 93 92 92 92 91 91	103 102 101 101 100 100 100 99 98 98 97 96 96 95 95 94 94 94 94 94 94 94 94	105 104 104 103 102 102 101 100 100 99 98 98 97 96 96 95 95 94 94	107 107 106 105 105 105 103 103 102 101 100 100 99 98 97 97 97 96 96 96 995 95	110 109 108 107 106 105 105 104 103 102 101 101 100 100 99 98 98 97 97	113 1112 1111 110 109 109 108 107 106 106 105 104 104 103 102 102 101 100 99 99 99 98	116 115 114 113 112 111 110 109 109 108 107 106 106 105 104 103 102 101 101 101 100 99	118 117 116 115 115 1113 112 111 110 109 109 108 107 106 106 105 104 104 103 102 102	121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 104 103
52 51 59 49 48 47 46 45 44 43 42 41 40 33 37 36 35 34 33 32 31 30	80 80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 80 80 80	82 82 82 82 81 81 81 81 81 81 81 81 80 80 80 80 80 80 80	83 83 83 83 82 82 82 82 82 82 81 81 81 81 81 81 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 82 82 82	86 86 85 85 85 85 84 84 84 84 83 83 83 83 83 83 83 83 83 83 83 83 83	87 87 86 86 86 86 85 85 85 85 84 84 84 84 84 83 83 83 83 83	89 88 88 88 87 87 87 86 86 86 86 85 85 85 85 85 85 84 84	90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86 86 86 85 85	92 92 91 91 91 90 90 89 88 88 88 88 87 87 87 87 86 86	94 94 93 93 92 92 92 91 91 90 90 89 89 88 88 88 88 88 87 87	96 96 95 95 95 94 94 94 94 99 93 93 92 92 91 91 90 90 89 89 89 89 88 88 88	98 98 98 97 97 96 96 95 95 94 93 93 93 93 92 92 91 91 90 90 90 89 89	100 100 100 99 99 98 97 96 96 96 95 95 93 93 93 93 92 92 92 91 91	103 102 101 101 100 100 99 98 98 97 97 96 95 95 95 94 94 93 93 93	105 104 104 103 102 102 101 100 100 99 98 98 97 97 96 95 95 95 94 94 94 93	107 107 106 105 105 103 103 103 100 101 101 100 99 98 98 97 97 96 96 95 95	110 109 108 108 107 106 105 105 103 103 102 101 101 100 100 99 99 98 98 97 97 96	113 1112 1111 110 109 108 107 106 105 104 103 102 102 101 100 100 99 98 98 98	116 115 114 113 1112 1111 110 109 109 108 107 106 105 104 104 103 102 102 101 101 100 99 99	118 117 116 115 115 114 113 112 111 110 109 109 109 107 106 106 105 104 104 104 102 102 101 101	121 120 119 118 117 116 115 114 113 112 111 110 109 108 108 107 106 106 106 105 104 104 103 102
52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 33 34 33 32 31 30 29	80 80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 79 79 79	82 82 82 82 81 81 81 81 81 81 81 81 81 80 80 80 80 80 80 80	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 81 81 81	86 86 85 85 85 85 84 84 84 84 83 83 83 83 83 83 82 82 82 82	87 87 86 86 86 86 86 85 85 85 85 84 84 84 84 84 83 83 83 83 83	89 88 88 88 87 87 87 86 86 86 86 85 85 85 85 85 84 84 84	90 90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86 86 85 85 85	92 92 91 91 91 90 90 89 89 88 88 88 88 87 87 87 86 86 86	94 94 94 93 92 92 92 91 91 90 90 90 90 89 89 88 88 88 88 87 87	96 96 95 95 95 94 94 94 94 94 92 92 91 91 91 90 90 89 89 89 88 88 88 88	98 98 98 97 96 96 95 95 94 94 93 93 92 92 91 91 90 90 90 89 89 89	100 100 100 99 99 98 97 96 96 95 95 94 94 94 93 93 93 93 92 92 92 91 91 91	103 102 101 101 100 99 98 98 97 97 96 96 96 95 95 94 94 94 93 93 93 93 92 92 92	105 104 104 103 102 102 101 100 100 99 98 98 97 97 96 96 95 95 94 94 94 93 93	107 107 106 105 105 103 103 102 101 101 100 100 99 98 98 97 97 96 96 96 95 99 94	110 109 108 107 106 105 105 105 104 103 103 102 101 100 100 99 98 98 98 97 97 96 96	113 1112 1111 110 109 109 108 107 106 106 105 104 104 103 102 102 101 100 99 98 98 98 97 97	116 115 114 113 112 111 110 109 109 108 107 106 106 105 104 104 103 102 102 101 101 100 99 99 98	118 117 116 115 115 1113 112 1111 110 109 109 108 107 106 106 106 105 104 104 104 102 102 101 101 101	121 120 119 118 117 116 115 114 113 112 111 110 109 108 108 107 106 106 106 105 104 104 103 102 102
52 51 50 49 48 47 46 45 44 43 42 41 40 39 39 37 36 35 34 33 32 31 30 28	80 80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 79 79 79 79	82 82 82 82 81 81 81 81 81 81 81 81 81 81 80 80 80 80 80 80 80	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 81 81 81 81	86 86 85 85 85 85 84 84 84 84 83 83 83 83 83 83 83 82 82 82 82 82 82	87 87 86 86 86 86 85 85 85 85 84 84 84 84 84 83 83 83 83 83 83	89 88 88 88 87 87 87 86 86 86 86 85 85 85 85 85 85 85 84 84 84 84	90 90 90 89 89 89 88 88 88 87 87 87 87 86 86 86 86 86 85 85 85	92 92 92 91 91 91 90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86 86 86	94 94 93 93 92 92 91 91 91 90 90 89 89 88 88 88 88 87 87 87 86	96 96 95 95 95 94 94 94 94 93 93 92 92 91 91 90 90 89 89 89 89 88 88 88 88 88	98 98 98 97 97 96 95 95 94 93 93 93 92 92 92 92 91 91 90 90 90 89 89 89 89	100 100 100 99 99 98 97 96 96 96 95 95 94 94 93 93 92 92 91 91 90 90	103 102 101 101 100 100 99 98 98 97 97 96 95 95 95 95 95 92 92 92 91 91	105 104 104 103 102 101 100 100 100 99 98 98 97 97 97 96 96 95 94 94 94 93 93	107 107 106 105 105 103 103 103 101 101 101 100 99 98 97 97 96 96 96 95 94	110 109 108 108 107 106 105 105 104 103 103 100 101 101 100 100 99 99 99 97 97 96 96 95 95	113 1112 1111 110 109 108 107 106 106 106 105 104 103 102 101 100 100 99 98 98 98 97 97	116 115 114 113 112 111 110 109 108 107 106 106 105 104 103 102 101 101 101 109 99 99 98 98	118 117 116 115 115 114 113 112 111 110 109 108 107 106 106 105 104 104 103 102 101 101 101 100 100 100	121 120 119 118 117 116 115 114 113 112 111 110 109 108 108 106 106 106 106 106 107 109 109 109 109 109 109 109 109 109 109
52 51 50 49 48 47 46 45 44 43 44 43 44 41 40 33 38 37 36 35 34 33 32 31 30 29 28	80 80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 79 79 79 79	82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 81 81 81 81	86 86 85 85 85 85 85 84 84 84 84 83 83 83 83 83 83 82 82 82 82 82 82	87 87 87 86 86 86 86 85 85 85 85 85 84 84 84 84 83 83 83 83 83	89 88 88 88 88 87 87 87 86 86 86 86 85 85 85 85 85 84 84 84 84 84	90 90 90 89 89 88 88 88 88 87 87 87 86 86 86 86 86 85 85 85	92 92 91 91 91 90 90 90 90 89 89 88 88 88 88 87 87 87 86 86 86 86 86 86	94 94 94 93 93 92 92 91 91 90 90 89 88 88 88 88 87 87 87 87 86 86	96 96 95 95 95 94 94 93 93 93 93 92 92 92 92 91 91 91 90 90 90 89 89 89 88 88 88 88 88	98 98 98 97 97 96 96 95 95 94 94 93 93 92 91 91 90 90 90 89 89 89 88	100 100 100 99 99 98 97 97 96 96 95 95 94 94 94 94 94 94 94 95 95 97 97 96 96 99 99 99 99 99 99 99 99 99 99 99	103 102 101 101 100 100 99 98 97 97 96 96 95 95 94 93 93 93 93 92 92 92 91	105 104 104 103 102 101 100 99 98 98 97 96 96 95 95 94 94 93 93 93	107 107 106 105 105 104 103 103 102 101 100 100 99 98 98 97 96 96 95 95 95 94 94	110 109 108 108 107 106 105 105 104 103 103 102 101 100 100 99 98 98 98 97 97 96 96 95 95	113 1112 1111 110 109 108 107 106 106 106 105 104 104 102 102 101 100 100 99 98 98 98 97 97 97	116 115 114 113 112 111 110 109 108 107 106 106 106 105 104 104 103 102 101 101 100 99 98 98 98	118 117 116 115 115 114 113 111 110 109 108 107 106 106 106 105 104 104 102 102 101 100 100 99	121 120 119 118 117 116 115 114 113 111 110 109 108 108 107 106 105 105 104 104 104 102 102 101
52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26	80 80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 79 79 79 79	82 82 82 82 81 81 81 81 81 81 81 81 81 81 80 80 80 80 80 80 80	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	84 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 81 81 81 81	86 86 85 85 85 85 84 84 84 84 83 83 83 83 83 83 83 82 82 82 82 82 82	87 87 86 86 86 86 85 85 85 85 84 84 84 84 84 83 83 83 83 83 83	89 88 88 88 87 87 87 86 86 86 86 85 85 85 85 85 85 85 84 84 84 84	90 90 90 89 89 89 88 88 88 87 87 87 87 86 86 86 86 86 85 85 85	92 92 92 91 91 91 90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86 86 86	94 94 93 93 92 92 91 91 91 90 90 89 89 88 88 88 88 87 87 87 86	96 96 95 95 95 94 94 94 94 93 93 92 92 91 91 90 90 89 89 89 89 88 88 88 88 88	98 98 98 97 97 96 95 95 94 93 93 93 92 92 92 92 91 91 90 90 90 89 89 89 89	100 100 100 99 99 98 97 96 96 96 95 95 94 94 93 93 92 92 91 91 90 90	103 102 101 101 100 100 99 98 98 97 97 96 95 95 95 95 95 92 92 92 91 91	105 104 104 103 102 101 100 100 100 99 98 98 97 97 97 96 96 95 94 94 94 93 93	107 107 106 105 105 103 103 103 101 101 101 100 99 98 97 97 96 96 96 95 94	110 109 108 108 107 106 105 105 104 103 103 100 101 101 100 100 99 99 99 97 97 96 96 95 95	113 1112 1111 110 109 108 107 106 106 106 105 104 103 102 101 100 100 99 98 98 98 97 97	116 115 114 113 112 111 110 109 108 107 106 106 105 104 103 102 101 101 101 109 99 99 98 98	118 117 116 115 115 114 113 112 111 110 109 108 107 106 106 105 104 104 103 102 101 101 101 100 100 100 100 100 100	121 120 119 118 117 116 115 114 113 112 111 110 109 108 108 106 106 106 106 106 107 109 109 109 109 109 109 109 109 109 109
52 51 50 49 48 47 46 45 44 43 44 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24	80 80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 81 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79	82 82 82 82 81 81 81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 80 80 80	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 81 81 81 81 81 81 81	86 86 85 85 85 85 85 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 82 82 82	87 87 86 86 86 86 85 85 85 85 85 84 84 84 84 83 83 83 83 83 83 83 83 83 83 83 83	89 88 88 88 88 87 87 87 87 86 86 86 86 85 85 85 85 85 85 84 84 84 84 84 84 83 83 83 83 83 83 84 84 85 86 86 86 86 86 86 86 86 86 86 86 86 86	90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86 86 85 85 85 85 85 85 85 85 85 85 85 85 85	92 92 92 91 91 91 90 90 90 89 89 88 88 88 87 87 87 86 86 86 86 86 86 86	94 94 93 93 92 92 92 91 91 91 90 90 90 89 88 88 88 87 87 87 87 87 86 86 86 86	96 96 95 95 94 94 93 93 93 92 92 92 92 91 91 91 90 90 90 89 89 88 88 88 88 88 88 88 88 87 87 87	98 98 98 97 97 96 96 95 95 94 93 93 92 92 91 91 90 90 90 90 89 89 89 88 88	100 100 100 99 99 98 97 97 96 96 95 94 94 94 93 93 92 92 92 92 91 91 90 90 90 90 89 89	103 102 101 101 100 99 98 98 97 96 96 95 95 95 94 94 93 93 93 93 93 92 92 92 92	105 104 104 103 102 101 100 99 98 98 98 97 96 96 95 95 94 94 93 93 93 92 92 91	107 107 107 106 105 105 105 103 103 103 101 101 101 100 100 99 98 98 98 99 97 96 96 99 99 99 99 99 99 99 99 99 99 99	110 109 108 107 106 105 105 105 105 105 107 101 101 101 101 101 101 101 101 101	1113 1112 1110 1101 109 108 107 106 106 106 106 104 104 104 102 102 101 100 100 99 98 98 98 98 97 97 97 97	116 115 114 114 113 112 110 109 108 107 106 106 106 106 109 109 101 101 102 102 101 100 99 98 98 98 98	118 117 116 115 115 115 115 111 111 110 109 108 107 106 106 106 106 101 104 104 104 107 109 100 100 100 100 100 100 100 100 100	121 120 119 118 117 116 115 114 113 111 110 109 108 108 107 106 106 105 104 104 104 102 102 101 100 100 100 100 100 100 100
52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23	80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79	82 82 82 82 82 83 81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 80 80 80	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	84 84 84 84 83 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 82 82 82	86 86 85 85 85 85 85 85 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 82 82 82	87 87 86 86 86 86 86 85 85 85 85 85 84 84 84 84 84 84 83 83 83 83 83 83 83 83 83 83 83 83 83	89 88 88 88 88 87 87 87 86 86 86 86 85 85 85 85 85 85 84 84 84 84 84 84 83 83 83 83 83 83 83 83 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85	90 90 90 89 89 88 88 88 88 87 87 87 86 86 86 86 86 86 85 85 85 85 85 85 85 85 85 85 85 85 85	92 92 92 91 91 91 91 90 90 89 89 88 88 88 88 88 87 87 87 87 87 86 86 86 86 86 86 86 86 85 85 85 85 85 85 85 85 85 85 85 85 85	94 94 93 93 93 92 92 92 91 91 91 90 90 89 89 88 88 88 87 87 87 87 87 87 86 86 86 86 86	96 96 95 95 94 94 93 93 92 92 92 91 91 90 90 89 89 88 88 88 88 88 87 87 87	98 98 98 97 97 96 96 95 94 94 93 93 93 93 92 91 91 90 90 90 89 89 89 88 88 88 88	100 100 99 99 99 98 97 97 96 96 96 95 94 94 93 93 93 92 92 92 92 91 91 90 90 90 90 90 90 90 90 90 90 90 90 90	103 102 101 101 100 99 98 98 97 96 96 95 95 95 95 94 94 93 93 93 92 92 92 92 92 91 91 91 90 90	105 104 103 102 101 101 100 99 98 98 98 97 97 96 95 95 95 94 94 94 93 93 93 93 93 93 93	107 107 107 106 105 105 105 103 103 103 101 101 100 100 100 98 98 99 99 99 99 99 99 99 99 99 99 99	110 109 108 108 107 106 105 107 106 107 101 101 101 101 101 100 100 100 100	113 112 111 110 109 108 106 106 106 106 106 109 109 109 109 109 109 109 109 109 109	116 115 114 113 112 110 109 108 106 106 106 106 106 109 109 109 109 109 109 109 109 109 109	118 117 116 115 115 115 115 1114 111 111 110 109 108 106 106 106 106 106 107 109 109 109 109 109 109 109 109 109 109	121 120 119 118 117 116 115 114 114 113 111 110 109 108 108 107 106 105 104 104 103 102 101 101 100 100 100 100 100 100 100
52 51 50 49 48 47 46 45 44 43 44 41 40 40 39 38 37 36 35 34 33 32 22 26 27 26 27 26 27 26 27 28 22 22	80 80 80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79	82 82 82 82 82 81 81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 80 80 80	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	84 84 84 84 83 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 81 81 81 81 81 81	86 86 85 85 85 85 85 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 83 83 83 83 83 83 83 83 83 84 84 84 84 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85	87 87 87 86 86 86 86 86 85 85 85 85 85 84 84 84 84 84 83 83 83 83 83 83 83 83 83 83 83 83 83	89 88 88 88 87 87 87 86 86 86 86 85 85 85 85 85 85 84 84 84 84 84 84 83 83 83 83 83 83 83 83	90 90 90 89 89 88 88 88 88 87 87 87 86 86 86 86 86 85 85 85 85 85 85 85 85 85 85 85 85 85	92 92 92 91 91 91 90 90 90 89 89 88 88 88 88 87 87 87 86 86 86 86 86 85 85 85	94 94 94 93 93 92 92 92 91 91 91 90 90 90 89 89 88 88 88 87 87 87 87 87 86 86 86 86 86 86 86 86	96 96 95 95 94 94 93 93 93 92 92 92 92 91 91 91 90 90 89 89 88 88 88 88 88 88 88 88 88 88 88	98 98 98 97 97 96 96 95 94 94 93 93 93 92 91 91 90 90 90 90 90 89 89 88 88 88 88 88	100 100 99 99 98 97 97 96 96 96 95 95 94 94 93 93 93 92 92 92 92 91 91 90 90 90 89 89 89	103 102 101 101 100 100 99 98 97 97 96 96 95 95 95 95 92 92 91 91 91 91 90 90	105 104 103 102 101 100 99 98 98 98 98 99 97 97 96 95 95 94 94 94 94 93 93 93 93 93 93 93 93	107 107 107 106 105 105 105 103 103 103 103 101 101 100 100 100 99 98 99 97 97 99 99 99 99 99 99 99 99 99 99	110 109 108 108 107 105 105 105 105 105 105 105 105 105 109 109 100 100 100 99 99 99 99 99 99 99 99 99 99 99 99 9	113 112 111 110 109 108 107 106 106 106 106 109 109 109 109 109 100 100 100 100 100	116 115 114 113 112 110 109 108 106 106 106 106 107 107 108 109 109 109 109 109 109 109 109 109 109	1118 1117 1115 1115 1115 1115 1111 1111	121 120 119 118 117 116 115 114 113 1112 111 110 109 108 108 107 106 106 106 106 101 102 102 102 101 101 100 100 100 100
52 51 50 49 48 47 46 45 44 43 44 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21	80 80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79	82 82 82 82 83 81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 79 79 79	83 83 83 83 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81	86 86 85 85 85 85 85 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 82 82 82	87 87 86 86 86 86 85 85 85 85 85 84 84 84 84 83 83 83 83 83 83 83 83 83 83 83 83 83	89 88 88 88 88 87 87 87 87 86 86 86 86 85 85 85 85 85 85 85 85 85 85 85 85 85	90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86 86 85 85 85 85 85 85 85 85 85 85 85 85 85	92 92 92 91 91 91 90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86 86 86 85 85 85 85	94 94 93 93 93 92 92 91 91 91 90 90 90 89 88 88 88 87 87 87 87 87 86 86 86 86 86 86 86 86	96 96 95 95 94 94 93 93 93 92 92 92 92 91 91 90 90 90 89 89 89 88 88 88 88 88 88 88 88 88 88	98 98 98 97 97 96 96 95 95 94 94 93 93 92 91 91 90 90 90 89 89 88 88 88 88 88 88	100 100 100 99 99 98 97 97 96 96 95 94 94 94 94 93 93 92 92 92 92 91 91 90 90 90 89 89 89 89 89	103 102 101 101 100 99 98 97 97 96 96 95 95 94 93 93 93 92 92 92 91 91 91 90 90 89	105 104 104 103 102 101 100 99 98 98 98 97 96 96 95 95 94 94 93 93 93 92 92 91 91 91	107 107 107 106 105 105 105 103 103 103 101 101 101 100 100 99 98 98 99 97 96 96 99 99 99 99 99 99 99 99 99 99 99	110 109 108 108 107 105 105 105 105 105 105 107 101 101 101 101 101 101 101 101 109 99 98 98 98 97 97 96 95 95 94 94 93 93 93 93	113 1112 1110 1101 109 108 107 106 106 106 106 104 104 102 102 101 100 100 99 99 98 98 98 97 97 97 97 99 99 99 99 99 99	116 115 114 113 112 110 109 108 107 106 106 105 105 104 104 103 102 101 101 100 99 98 98 98 99 97 97 99 96	118 117 116 115 115 115 115 115 111 110 109 108 107 106 106 105 104 101 101 101 101 102 102 102 103 104 109 109 109 109 109 109 109 109 109 109	121 120 119 118 117 116 115 114 113 112 111 110 109 108 108 107 106 106 106 106 107 109 109 109 109 109 109 109 109 109 109
52 51 50 49 48 47 46 45 44 41 40 39 38 37 36 35 34 33 32 23 31 30 29 28 27 26 25 24 22 21 20	80 80 80 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79 79 79 79 79	81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 79 79 79 79 79 79 79 79 79	82 82 82 82 82 81 81 81 81 81 81 81 80 80 80 80 80 80 80 80 80 80 80 79 79 79	83 83 83 83 82 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	84 84 84 84 84 83 83 83 83 83 83 82 82 82 82 82 82 82 82 82 81 81 81 81 81 81 81 81 81 81 81 81 81	86 86 85 85 85 85 85 85 84 84 84 84 83 83 83 83 83 82 82 82 82 82 82 82 82 82 82 83 83 83 83 83 83 83 83 83 83 83 83 83	87 87 86 86 86 86 86 85 85 85 85 85 84 84 84 84 83 83 83 83 83 83 83 83 83 83 83 83 83	89 88 88 88 87 87 87 86 86 86 86 85 85 85 85 85 85 84 84 84 84 84 84 83 83 83 83 83 83 83 83 83 83 83 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85	90 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86 85 85 85 85 85 85 85 85 85 85 85 85 85	92 92 92 91 91 91 91 90 90 89 89 88 88 88 88 87 87 87 87 86 86 86 86 86 85 85 85 85 85 85	94 94 94 93 93 93 92 92 92 91 91 91 90 90 89 89 88 88 88 88 87 87 87 87 87 87 86 86 86 86 86 86 86 88 88 88 88 88 88	96 96 95 95 94 94 93 93 92 92 92 91 91 90 90 90 89 89 88 88 88 88 88 88 88 87 87 87 87 87 87	98 98 98 97 97 96 96 95 95 94 94 93 93 93 93 93 92 91 91 90 90 90 90 89 89 88 88 88 88 88 88	100 100 100 99 99 99 97 97 96 96 96 95 95 94 94 93 93 93 92 92 92 91 91 90 90 90 90 90 89 89 89 89 89 89 89 89 89 89 89 89 89	103 102 101 101 100 99 98 98 97 96 96 95 95 95 94 94 93 93 92 92 92 92 91 91 91 90 90 88	105 104 103 102 101 101 100 99 98 98 98 97 97 96 95 95 95 94 94 94 94 94 99 99 99 99 99 99 99 99	107 107 107 106 105 105 105 105 101 101 100 100 100 100	110 109 108 108 107 106 105 107 106 107 109 109 100 100 100 100 100 100 100 100	113 112 111 110 109 108 106 106 106 106 106 107 109 109 109 109 109 109 109 109 99 99 99 99 99 99 99 99 99 99 99 99 9	116 115 114 113 112 110 109 109 106 106 106 106 106 109 109 109 109 109 109 109 109 109 109	118 117 116 115 115 115 115 111 111 111 110 109 108 106 106 106 106 106 109 109 109 109 109 109 109 109 109 109	121 120 119 118 117 116 115 114 114 113 111 110 109 108 108 107 106 106 106 105 104 104 103 102 101 109 109 99 98 98 98
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