Man of the Match

In this challenge, you will be given ball-by-ball data data about an IPL match, and you have to write a program to determine the man-of-the-match using a (simplified) version of the most-valuable-player computation as described below.

Players in the match score MVP points as d`escribed below:

* Base Points:
* A batsman scores 1 base point for every run scored
* Every wicket results in an allocation of 25 base points to the players involved in the wicket.
  + An unassisted wicket (bowled, LBW, etc) results in all 25 base points being awarded to the bolwer
  + An assisted wicket (caught, stumped) results in the base points being split equally between the invovled players
* Bonus Points:
  + Bonus points are awarded as a percentage of the base points scored by the player.
  + A batsman whose strike rate is higher than the strike rate of the team gets a 10% bonus (i.e. 0.1 x base\_points are added to his score). One whose strike rate is lower than the strike rate of the team, gets 10% deducted (i.e. 0.1 x base\_points are deducted from his score)
  + A bowler whose economy rate is lower than the economy rate of the team gets a 10% bonus (i.e. 0.1 x base\_points are added to his score). One whose economy rate is higher than the economy rate of the team, gets 10% deducted (i.e. 0.1 x base\_points are deducted from his score)

The player with highest points is declared the man-of-the-match. In case of a tie, the player with the higher base points gets the award. If base points are the same, then the award is given jointly.

### Format of the data

The data for each match will be provided in below format:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Innings Number | Over and ball | Batting team name | Batsman name | Non-striker name | Bowler name | Runs-off-bat - a single number | Extras | Kind of wicket | - Name of dismissed player | Player Assisting the dismissal |
| 1 | 0.3 | Kolkata Knight Riders | BB McCullum | SC Ganguly | P Kumar | 0 | 1w |  |  |  |
| 1 | 0.4 | Kolkata Knight Riders | BB McCullum | SC Ganguly | P Kumar | 0 | 0 |  |  |  |
| 1 | 0.5 | Kolkata Knight Riders | BB McCullum | SC Ganguly | P Kumar | 0 | 0 |  |  |  |
| 1 | 0.6 | Kolkata Knight Riders | BB McCullum | SC Ganguly | P Kumar | 0 | 0 |  |  |  |
| 1 | 0.7 | Kolkata Knight Riders | BB McCullum | SC Ganguly | P Kumar | 0 | 1lb |  |  |  |
| 1 | 1.1 | Kolkata Knight Riders | BB McCullum | SC Ganguly | Z Khan | 0 | 0 |  |  |  |
| 1 | 1.2 | Kolkata Knight Riders | BB McCullum | SC Ganguly | Z Khan | 4 | 0 |  |  |  |
| 1 | 1.3 | Kolkata Knight Riders | BB McCullum | SC Ganguly | Z Khan | 4 | 0 |  |  |  |
| 1 | 1.4 | Kolkata Knight Riders | BB McCullum | SC Ganguly | Z Khan | 6 | 0 |  |  |  |
| 1 | 1.5 | Kolkata Knight Riders | BB McCullum | SC Ganguly | Z Khan | 4 | 0 |  |  |  |
| 1 | 1.6 | Kolkata Knight Riders | BB McCullum | SC Ganguly | Z Khan | 0 | 0 | lbw | BB McCullum |  |
| 1 | 2.1 | Kolkata Knight Riders | BB McCullum | SC Ganguly | Z Khan | 0 | 0 | caught | SC Ganguly | Virat Kohli |

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Each line contains 10 fields, as follows:

- Innings number: 1 or 2

- Over and ball

- Batting team name

- Batsman name

- Non-striker name

- Bowler name

- Runs-off-bat - a single inumber

- Extras - this consists of the number of runs scored, followed by a suffix to indicate type of extras. The suffix can be one of: `nb`, `w`, `b`, `lb`, and `p`. These stand for, respectively: no ball, wide, byes, leg byes, and penalty for any other reason.

- Kind of wicket, if any. This can be one of: `bowled`, `caught`, `stumped`, `run out`, `lbw`, `handled the ball`, `hit wicket`, `double touch`, `obstructed field`, `timed out`, `retired out`.

- Name of dismissed player, if there was a wicket

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### Formulae details

Strike rate of a batsman is computed as the total runs scored by the batsman, divided by the number of balls faced by that batsman.

Note: extras (byes, leg byes, wide, no balls) do not count towards either the runs scored, nor towards the balls faced.

Strike rate of a team is computed as the total number of runs scored by all the batsmen (not counting extras), divided by total number of balls faced (not counting extras)

Economy rate of a bowler is computed as the runs conceded (including extras), divided by the number of balls bowled (not counting extras).

Economy rate of a team is computed as the total runs conceded divided by the total number of legal balls bowled.