



My code is my resume

"Geektrust has tie ups with some of the best startups. And all one got to do is write code, the rest is taken care by the geektrust team."

- Athira, now works at [Sahaj Soft](#)

Athira, Souranil and many more developers have solved Geektrust coding challenges to find great jobs.

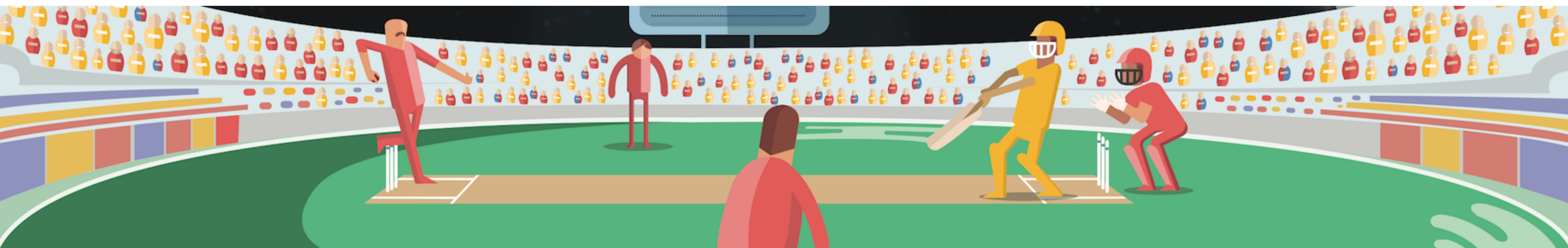
- * **Get feedback** on your coding skills. Detailed, handcrafted feedback on your code.
- * **Get priority** and be treated as a premium candidate to directly connect with decision makers at companies.
- * **Get membership** and win an exclusive Geektrust DEVELOPER t-shirt given when you write good code.

What we look for in your code - It's not just about getting output, but how you get it. We care about how well modelled your code is, how readable, extensible, well tested it is. Have questions on the challenges or our evaluation? Ping us on the Geektrust [Slack channel](#).

PROBLEM CONTEXT

Our problem is set in the planet of Lengaburu, in the distant distant galaxy of Tara B. And it's the finals of the Intergalactic T20 Cup! Lengaburu and Enchai, neighbours and fierce rivals, are fighting it out for the title.

Lengaburu's star batsman Kirat Boli is at the crease. Can he win it for Lengaburu? Write code to simulate the last 4 overs of the match.



PROBLEM 1: THE LAST FOUR

It's the last 4 overs of the match. **Lengaburu needs 40 runs to win and with 3 wickets left.** Each player has a different probability for scoring runs. Your coding problem is to simulate the match, ball by ball.

The match simulation will require you to use a weighted random number generation based on probability to determine the runs scored per ball. For this randomizer, you can use any external library of your choice (if you wish to, the choice is yours).



VS



PROBABILITY TABLE



PLAYER PROBABILITY								
	DOT BALL	1	2	3	4	5	6	OUT
Kirat Boli	5%	30%	25%	10%	15%	1%	9%	5%
N.S Nodhi	10%	40%	20%	5%	10%	1%	4%	10%
R Rumrah	20%	30%	15%	5%	5%	1%	4%	20%
Shashi Henra	30%	25%	5%	0%	5%	1%	4%	30%

I Rules of the Game

1. Batsmen change strike end of every over. They also change strike when they score a 1,3 or 5
2. When a player gets out, the new player comes in at the same position.
3. Assume only legal balls are bowled (no wides, no no-balls etc..). Therefore an over is always 6 balls.



VS



RULES OF CRICKET

1. Batsmen change strike end of every over. They also change strike when they score a 1,3 or 5
2. When a player gets out, the new player comes in at the same position.
3. Assume only legal balls are bowled (no wides, no no-balls etc..). Therefore an over is always 6 balls.

SAMPLE OUTPUT

Lengaburu won by 1 wicket and 2 balls remaining

Kirat Boli - 12 (6 balls)
NS Nodhi - 25 (11 balls)
R Rumrah - 2* (3 balls)
Shashi Henra - 2* (2 balls)

Sample commentary

4 overs left. 40 runs to win

0.1 Kirat Boli scores 1 run
0.2 NS Nodhi scores 4 runs
0.3 NS Nodhi scores 1 run
0.4 Kirat Boli scores 2 runs
0.5 Kirat Boli scores 3 runs
0.6 NS Nodhi scores 1 run

3 overs left. 28 runs to win

1.1 NS Nodhi scores 2 runs

....

Note: You can assume both Kirat Boli and NS Nodhi are batting on 0* when the simulation begins

PROBLEM 2: THE TIE BREAKER

The final has resulted in a tie! Just like '07. Now the result will be decided by a one over tie breaker. 2 batsmen, 6 balls, who will win?



VS



PROBABILITY TABLE



	DOT BALL	1	2	3	4	5	6	OUT
Kirat Boli	5%	10%	25%	10%	25%	1%	14%	10%
N.S Nodhi	5%	15%	15%	10%	20%	1%	19%	15%

PLAYER PROBABILITY



	DOT BALL	1	2	3	4	5	6	OUT
DB Vellyers	5%	10%	25%	10%	25%	1%	14%	10%
H Mamla	10%	15%	15%	10%	20%	1%	19%	10%

PLAYER PROBABILITY

Note: Probability chart for Kirat Boli and NS Nodhi have changed from problem 1 (to reflect a 1 over match)

SAMPLE OUTPUT

Enchai won with 4 balls remaining

Lengaburu
Kirat Boli - 4 (2 balls)
NS Nodhi - 0* (0 balls)

Enchai
DB Vellyers - 1* (1 ball)
H Mamla - 4* (1 balls)

Sample commentary

Lengaburu innings:
0.1 Kirat Boli scores 4 runs!
0.2 Kirat Boli gets out! Lengaburu all out

Enchai innings:
0.1 DB Vellyers scores 1 run
0.2 H Mamla scores 4 runs! Enchai wins!

Note: Assume Lengaburu always bats first

WHAT WE LOOK FOR IN YOUR CODE

Ready to hit a six? Remember that it is not just about getting the output, but how you get it. We care about how well modelled your code is, how readable, extensible, well tested it is.

Note: In cases where there is an edge case which is not mentioned in this problem statement, go-ahead and make an assumption. Just let us know what it is in a readme file.

SUBMITTING CODE

1. Please compress the file before upload. We accept .zip, .rar, .gz and .gzip
2. Name of the file should have the name of the problems you have solved Set4Problem1.zip or Set4Problem2.zip or Set4Problem12.zip
3. Upload the file in a way that makes it easy for us to get it running. This will factor into your evaluation.
4. Usage of non-essential 3rd party libraries will affect your evaluation.
5. We advise not to put your personal details in your solution as we maintain your anonymity with a company until there is genuine interest from them.

NEED HELP?

1. We know it's possible you may have more questions on the coding challenges. So we're available on our Slack chat channel for you. You can come in and ask questions and get all the support you need.
2. Just send a mail to devs@geektrust.in saying 'Add to Slack' and we'll send you an invite to join our channel, and we will help you out.
3. *You can also submit incomplete solutions if you want feedback to make sure you're going in the right direction. Just make sure to add INCOMPLETE as a prefix to the filename you're uploading e.g - INCOMPLETE-problem12.zip*

WHAT NEXT?

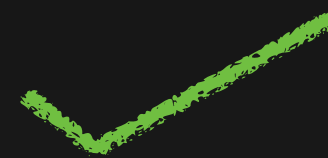
A few good developers

Write great code. Get membership. Explore jobs.



Write Code

Sign up to solve interesting coding problems



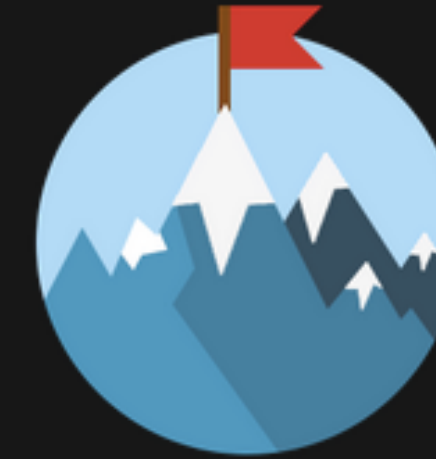
Be a Member

Clear evaluation and get featured on GeekTrust



Connect with Companies

Explore opportunities as companies reach out to you



Find the Perfect Job

Review options, interview & find the right job for you