



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

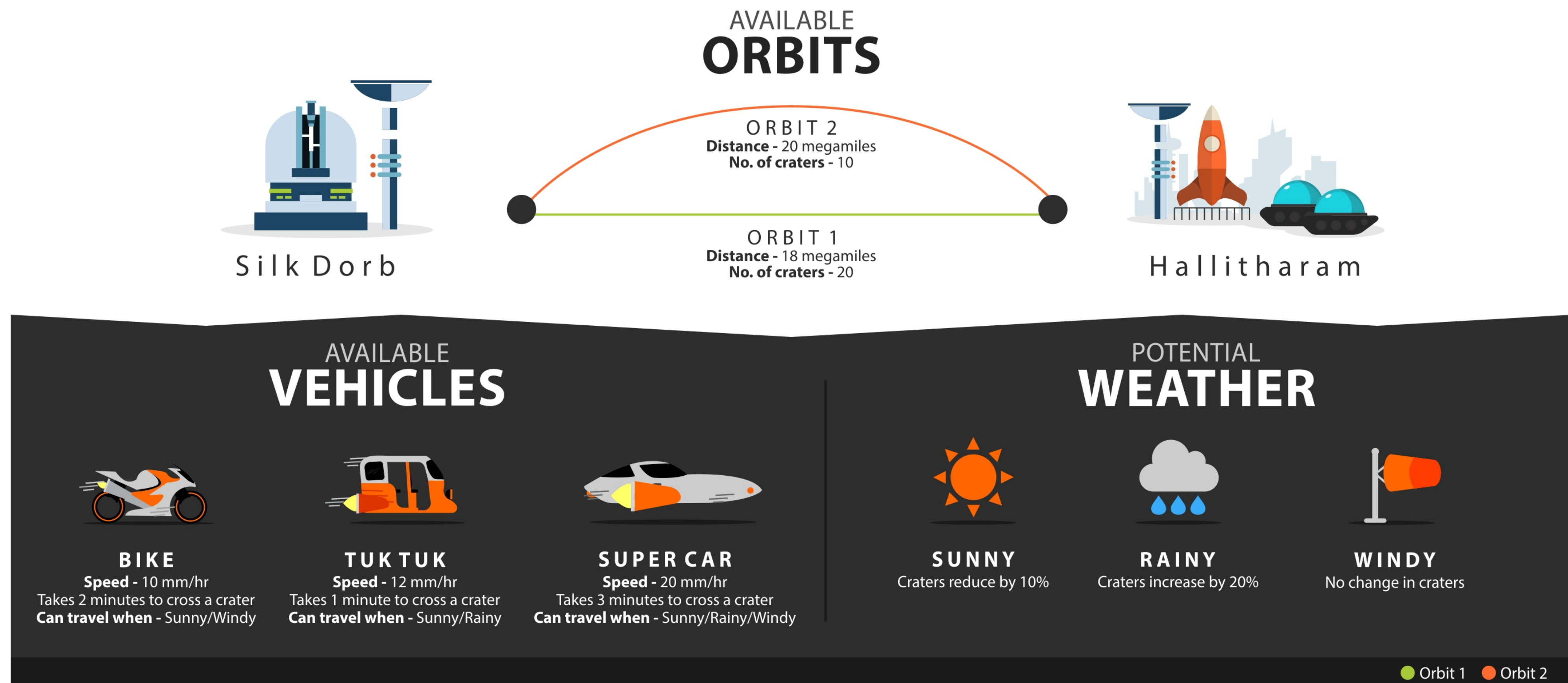
Our problem is set in the traffic snarls of planet Lengaburu. After the recent Falicornian war, victorious King Shan of Lengaburu wishes to tour his kingdom. But the traffic in Lengaburu is killing. You should see how Silk Orb gets jammed in the evening!

Write code to help King Shan navigate Lengaburu's traffic. You could write this from scratch or you could refactor this poorly written code —> <https://github.com/geektrust/lengaburu-traffic>.



PROBLEM 1: LENGABURU TRAFFIC

King Shan wants to visit the suburb of Hallitharam, and has 2 possible orbits and 3 possible vehicles to choose from. Your coding challenge is to determine which orbit and vehicle King Shan should take to reach Hallitharam the fastest.



PROBLEM 1: LENGABURU TRAFFIC

Goal: to go from Silk Dorb to Hallitharam in the shortest time possible.

Orbit options:

Orbit 1 - 18 mega miles & 20 craters to cross

Orbit 2 - 20 mega miles & 10 craters to cross

Vehicle options:

Bike - 10 megamiles/hour & takes 2 min to cross 1 crater

Tuktuk - 12 mm/hour & takes 1 min to cross 1 crater

Car - 20 mm/hour & takes 3 min to cross 1 crater

Weather conditions (affects the number of craters in an orbit):

Sunny - craters reduce by 10%. Car, bike and tuktuk can be used in this weather.

Rainy - craters increase by 20%. Car and tuktuk can be used in this weather.

Windy - no change to number of craters. Car and bike can be used in this weather.

SAMPLE INPUT & OUTPUT

↕ Sample Input & Output |

Input: Weather is Sunny
Input: Orbit1 traffic speed is 12 megamiles/hour
Input: Orbit2 traffic speed is 10 megamiles/hour
Expected Output: Vehicle TukTuk on Orbit1

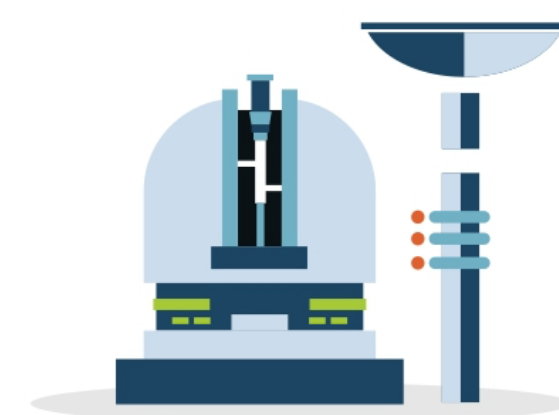
↕ Sample Input & Output ||

Input: Weather is Windy
Input: Orbit1 traffic speed is 14 megamiles/hour
Input: Orbit2 traffic speed is 20 megamiles/hour
Expected Output: Vehicle Car on Orbit2

Note: A vehicle cannot travel faster than the traffic speed for an orbit. So even though a car's max speed is 20 megamiles/hour, it can only go at 10 megamiles/hour if that is the traffic speed for that orbit. Also, if there is a tie in which vehicle to choose, use bike, auto, car in that order.

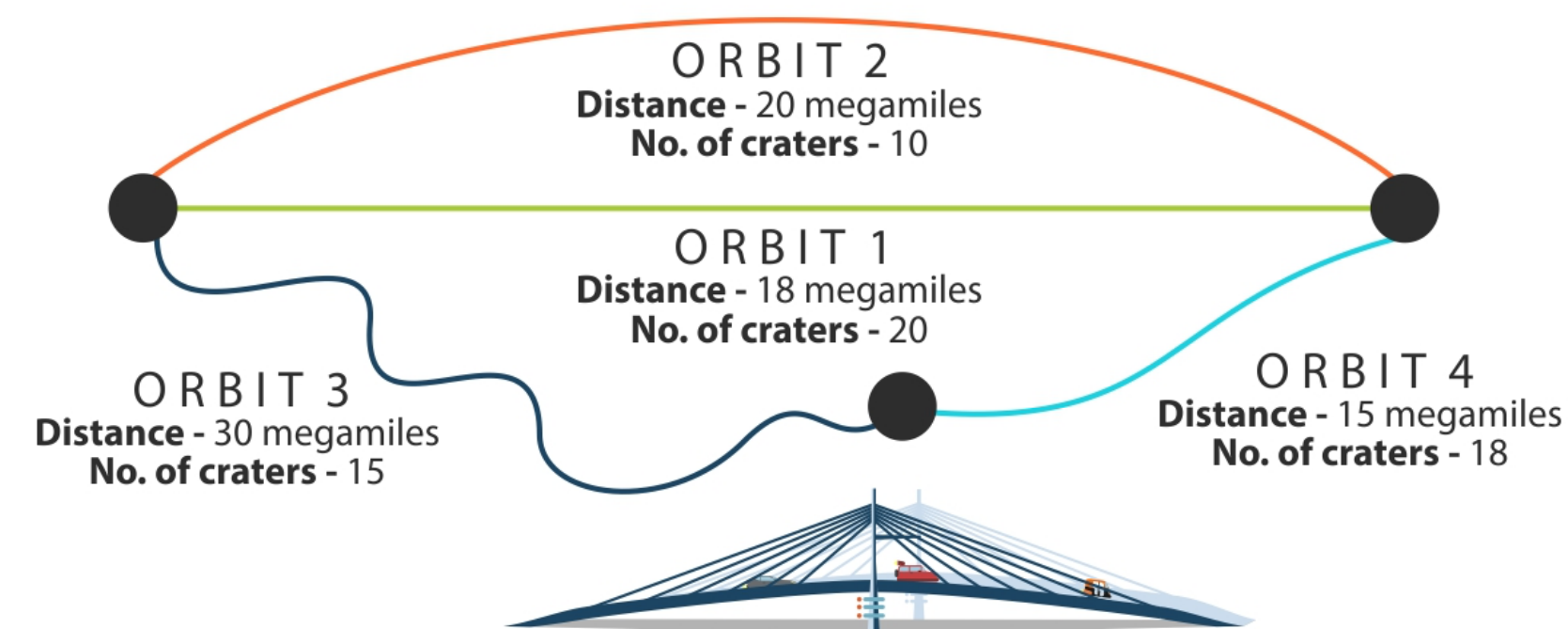
PROBLEM 2: MISSION IMPOSSIBLE

King Shan now would like to visit Hallitharam and RK Puram on the same day. Write code to determine which orbits & vehicle he should take to visit both destinations in the quickest possible time.



Silk Dorb

AVAILABLE ORBITS



Hallitharam



RK Puram

AVAILABLE VEHICLES



BIKE

Speed - 10 mm/hr
Takes 2minutes to cross a crater
Can travel when - Sunny/Windy



TUK TUK

Speed - 12 mm/hr
Takes 1minute to cross a crater
Can travel when - Sunny/Rainy



SUPER CAR

Speed - 20 mm/hr
Takes 3minutes to cross a crater
Can travel when - Sunny/Rainy/Windy

POTENTIAL WEATHER



SUNNY

Craters reduce by 10%



RAINY

Craters increase by 20%



WINDY

No change in craters

SAMPLE INPUT & OUTPUT

↕ Sample Input & Output |

Input: Weather is Sunny
Input: Orbit1 max traffic speed is 20 megamiles/hour
Input: Orbit2 max traffic speed is 12 megamiles/hour
Input: Orbit3 max traffic speed is 15 megamiles/hour
Input: Orbit4 max traffic speed is 12 megamiles/hour

Expected Output: Vehicle TukTuk to Hallitharam via Orbit1 and RK Puram via Orbit4

↕ Sample Input & Output ||

Input: Weather is Windy
Input: Orbit1 max traffic speed is 5 megamiles/hour
Input: Orbit2 max traffic speed is 10 megamiles/hour
Input: Orbit3 max traffic speed is 20 megamiles/hour
Input: Orbit4 max traffic speed is 20 megamiles/hour

Expected Output: Vehicle Car to RK Puram via Orbit3 and Hallitharam via Orbit4

Note: You can choose only 1 vehicle for the entire trip. You cannot change vehicle after reaching the first destination.

WHAT WE LOOK FOR IN YOUR CODE

Ready to handle traffic? But remember that it is not just about getting the right answer, but how you get it. You could write code from scratch or refactor this piece of code we wrote —> <https://github.com/geektrust/lengaburu-traffic>. Our expectation from you is the same irrespective of whether you refactor or write from scratch - 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 Set3Problem1.zip or Set3Problem2.zip or Set3Problem12.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?

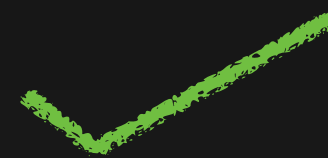
A few good developers

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