

# 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 (ex-Motorola), Souranil (ex-ThoughtWorks) and 200+ developers have solved Geektrust coding challenges to find great jobs over the last 4 years*

- \* **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.

Over 3000 developers from the best companies in the world have trusted us with their code. And we don't look just at the output, but how you get it is more important. We care about how well modelled your code is, how readable, extensible, well tested it is. Check out our [coding help page](#) to ensure you get a good score.

# Getting started

1. Getting the output right is important, but more important is clean code and how well designed your code is. You should **absolutely** see our [Help page](#) post on what we look for in your code, and how to get started with the coding challenge.
2. See our evaluation parameters [here](#) and the badges to earn [here](#).
3. We expect a command line app. So no web apps will be considered for evaluation. You don't need data stores either.



# Problem context

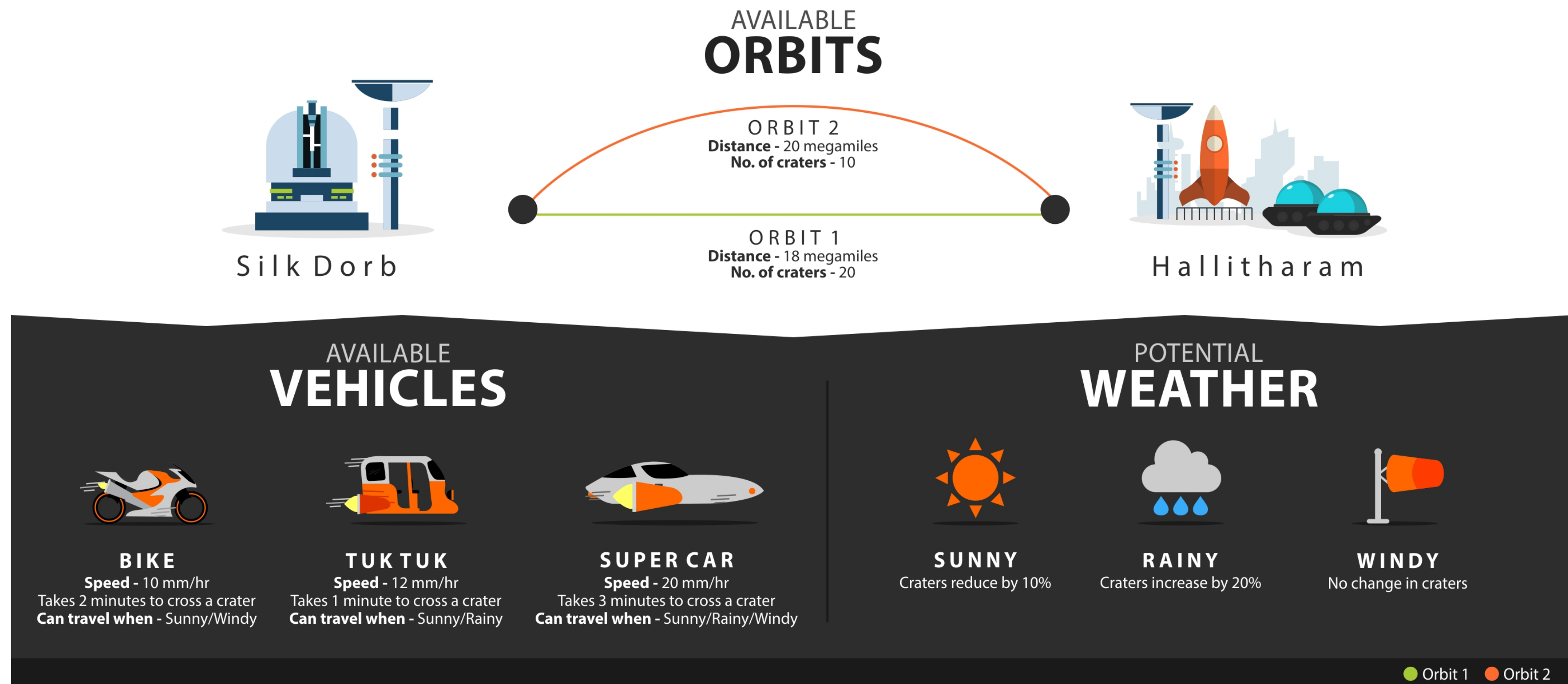
Our problem is set in the traffic snarls of planet Lengaburu. After the recent Falicornian war, victorious King Shan of Lengaburu wishes to tour his kingdom. But the traffic in Lengaburu is killing. You should see how Silk Orb gets jammed in the evening!

Write code to help King Shan navigate Lengaburu's traffic.



# Problem : mission impossible

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.



# Travel options

## 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

**Your program should take the location to the test file as parameter.** Input needs to be read from a text file, and output should be printed to the console.

## ↕ Input Format

```
WEATHER ORBIT_1_TRAFFIC_SPEED ORBIT_2_TRAFFIC_SPEED
```

## ↕ Output Format

```
VEHICLE_NAME ORBIT_NO
```

## ↕ Sample Input

```
RAINY 40 25
```

## ↕ Sample Output

```
CAR 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.

More sample input output scenarios.

**Please stick to the Sample input output format as shown.** This is very important as we are automating the correctness of the solution to give you a faster evaluation. You can find some sample input output files [here](#).

↕ Sample Input 1

SUNNY 12 10

↕ Sample Input 2

WINDY 14 20

↕ Sample Input 3

RAINY 8 15

↕ Sample Output 1

TUKTUK ORBIT1

↕ Sample Output 2

CAR ORBIT2

↕ Sample Output 3

TUKTUK ORBIT2

# Python - Instructions to Build & Execute

## Solution with build file

We support only **Pip** build system. You can add your dependent packages and versions in requirements.txt.

The **Main** file should be named as **geektrust.py**. This is the file that will contain your main method.

We then execute the solution by the following command. [Read more](#).

```
pip install -r requirements.txt  
python -m geektrust <absolute_path_to_input_file>
```

## Solution without build file

For a solution without build system, we want you to name your **Main** file as **geektrust.py**. This is the file that will contain your main method. We then execute the solution by the following command. [Read more](#).

```
python -m geektrust <absolute_path_to_input_file>
```



# Supported Language & Versions

Code submissions are run against a Linux virtualized instance.

Supported language and versions are below:

Language	Supported versions	Supported Tools
C#	dotnet core 2.2, 3.1	dotnet
Go	1.12.x	Go build tool
Java	1.8, 1.11	maven, gradle
Node.js	8.16.x, 10.16.x, 12.6.x	npm, yarn
Python	3.7, 3.8	pip
Ruby	1.9.x, 2.2.x, 2.6.x	rake, bundler-rake

You can upload code in any version of Clojure, C++, Erlang, Groovy, Kotlin, PHP, Scala. We don't have automated tests for these languages yet. So your evaluation will take longer than the others.

# Check list - submitting code

1. Please compress the file before upload. We accept .zip, .rar, .gz and .gzip
2. Name of the file should be the problem set name you are solving. For e.g. if you have solved Family problem, please name your file 'Family.zip'.
3. Please upload only source files and do not include any libraries or executables or node\_modules folder.
4. Usage of non-essential 3rd party libraries will affect your evaluation.
5. Add a **readme** with how to get your code working, and how to test your code.
6. Your solution will be downloaded & seen by companies you're interested in. Hence we advise you to provide a solution that will work on any system without any code changes/manual setup.

# what next?

## A few good developers

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### Connect with Companies

Explore opportunities as companies reach out to you



### Find the Perfect Job

Review options, interview & find the right job for you

