kitt

Interview Task:

Junior Software
Engineer

Junior Engineer Challenge

We've created the following task to give you some insight into the role and challenges that may come up in the junior engineer position.

Please have this task back to us within 3 days.

You can reach out to leila.bennett@kittoffices.com if you have any questions.

Good luck!

The Situation

We are looking to add a pricing function to our meeting room bookings feature, as we've noticed that this is being requested more and more by companies.

The Task

Create a function that takes a booking length in minutes and returns a price.

Please take into account readability, performance, tests and safety when implementing your solution.

Context

The intended functionality of the service is to calculate the price of a meeting room based upon the given meeting duration and following [min|hour|day|week] tariff:

Price per minute: £2
Price per hour: £22
Price per day: £60
Price per week: £105

Pseudocode interface:
GetPrice(duration_minutes as Integer) returns price as Integer

- The pricing function should use the cheapest rate for given duration.
- For example if the duration is 3 hours it should use the daily price of £60 as this is cheaper than using the price per hour (£66).

Example test Cases below:

1440 minutes = £60
2880 minutes = £105
20160 minutes = £210

You can implement the solution in the language of your choice. Please email back the solution (with instructions how to run if necessary).

FAQs

What are Kitt looking for in this task?

We're looking for a robust function built with future engineers in mind.
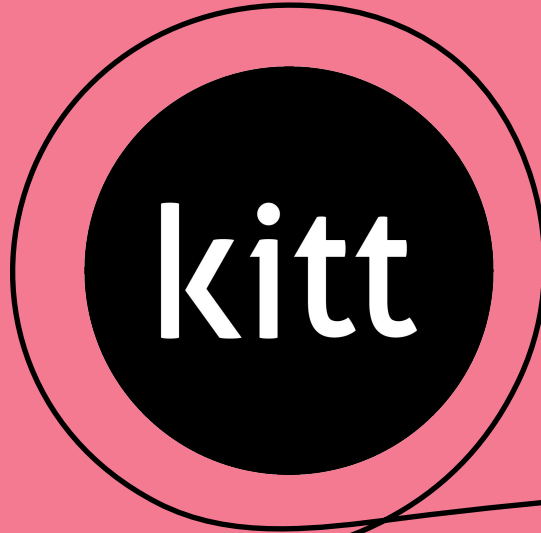
What's the deadline?

Please return your task to us within 3 days of receiving it. Let us know if you need any longer than this,

How long should I spend on the task?

We anticipate that this will take a couple of hours to complete.

Will there be questions?

We may ask questions on your task at interview stage if you are successful.

Kitt are committed to creating a fair interview process. This task has been designed solely for the recruitment of the Junior Back End Engineer position and all candidate work produced will not be used for any other purpose.

Good luck!