Q1) Given a public cloud compute infrastructure, where the consumer can purchase number of vcores (resources) on a daily basis. And given my daily job schedule , find out the optimal number of vCores I need to buy.

Job ID Start time Duration Num of vCores Interval

1 0700 2hrs 2 (7-9)

2 0715 1.5hrs 3 (7:15 - 8:45)

3 0800 1hr 1 (8-9)

4 0900 2hrs 3 (9-11)

5 1000 1hr 2 (10-11)

6 1030 1hr 5 (1030 - 1130)

Q2) Given a dictionary used within a search engine , correct a mis-spelt word entered by the user based the criteria defined below.

Eg: PAPER (mis-spelt word) -> TAILOR (correct word)

The cost of correcting the word , Insert/Delete/Replace a character = 1