3. Vacation

You will receive three lines from the console:

- A **count of people** who are going on vacation.
- **Type** of the group (**Students, Business or Regular**).
- The **day** of the week which the group will stay on (**Friday, Saturday** or **Sunday**).

Based on the given information calculate how much the group will pay for the entire vacation.

The price for a **single person** is as follows:

	Friday	Saturday	Sunday
Students	8.45	9.80	10.46
Business	10.90	15.60	16
Regular	15	20	22.50

There are also discounts based on some conditions:

- For **Students** – if the group is 30 or more people, you should reduce the **total** price by **15%.**
- For **Business** – if the group is 100 or more people, **10** of the people stay **for free.**
- For **Regular** – if the group is between 10 and 20 people (both inclusively), reduce the **total** price by **5%.**

Note: You should reduce the prices in that EXACT order!

As an output print the final price which the group is going to pay in the format:

"Total price: {price}"

The price should be **formatted to the second decimal point**.

Examples

Input	Output
30 Students Sunday	Total price: 266.73
40 Regular Saturday	Total price: 800.00