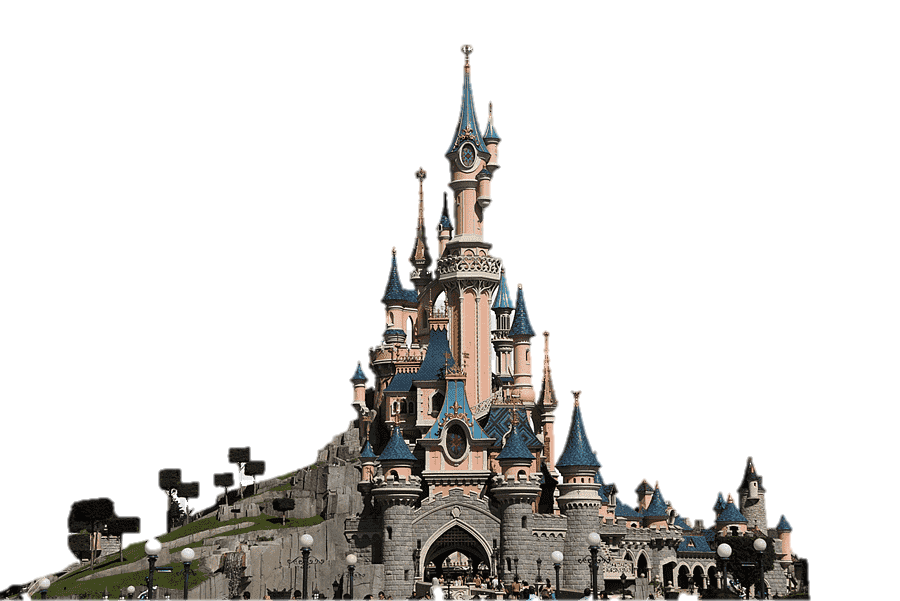
# Problem 1 - Disneyland Journey



Create a program that checks if you can **save money** for a Disneyland's journey. You have a **certain number of months** during which you can collect the money.

**At the end of each month,** you save **25% of the cost of the journey.**

**At the beginning of** every **odd** month (**except** the **first**one) you **spent 16%** of the money collected so far on clothes and shoes.

Every **4th (fourth)** month **at the beginning of the month** your bossgives you а bonus. It is **25%** of the money collected so far.

If you save enough money for the journey, calculate how much money will be left for the souvenirs. Then print the following:

**"Bravo! You can go to Disneyland and you will have {money} USD for souvenirs."**

If the money saved is less, you need to calculate how much money you need. Then print the following:

**"Sorry. You need {money} USD more."**

Both numbers should be **formatted** to the **2nd decimal place**.

### Input

* On the **1st line,** you will receive how much the journey will cost – a **real number** in the range **[500.0…10000.0]**
* On the **2nd line,** you will receive the **number of months** for which you have to collect money – an **integer number** in the range **[1…12].**

### Output

* Print the output in the **format** **described** **above**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 1000 4 | Bravo! You can go to Disneyland and you will have 87.50 USD for souvenirs. |
| **Comments** | |
| You need 1000 USD for the journey, and you have 4 months to collect them. Every month you can save 1000 \* 25% => 250 USD. So, to the end of the **1st** month, you have **250 USD**. To the **end** of the **2nd** month - 250 + 250 -> **500** **USD**. At the **begging** of the 3rd month (**odd month**), you spent **80 USD** (500 \* 16%) for clothes and shoes, then you save **250 USD**, so now you have **670 USD**. Last month is the **4th month** and you save 670 + 167.5 (670 \* 25%) + 250 = **1087.5 USD**. You have 1087.5 – 1000 = **87.5 USD.**, so you can go on the trip. | |
|  | |
| 3265  3 | Sorry. You need 1077.45 USD more. |