How much does this bouquet cost?

Ann grows daises, roses and lilies and sells them at the open market during the weekend. Write a program that helps her to **calculate the final prices** of the bouquets their customers buy.

Usually, Ann goes to the market with **230 daisies**, **150 roses** and **75 lilies**. She sells all flowers cheaper during the **summer** and **spring**:

	Spring and Summer	Autumn (Fall) and Winter
Daisy (price per a flower)	$ **4**	$ **7.50**
Rose (price per a flower)	$ **8.20**	$ **9**
Lily (price per a flower)	$ **5**	$ **8.30**

Also keep in mind that:

- All prices are **10% up** if it's a **holiday**.
- There are some **discounts** if **many flowers** are bought.
- Ann takes **$2** for bouquet **arranging**.

Input

The input consists of exactly **5 lines**:

- First line: the **number of daisies every particular customer orders** – an integer between **[0 … 230]**
- Second line: the **number of roses every particular customer orders** – an integer between **[0 … 150]**
- Third line: the **number of lilies every particular customer orders** – an integer between **[0 … 75]**
- Fourth line: **season at the moment** (all "Spring", "Summer", "Autumn", "Fall", "Winter" / "spring", "summer", "autumn", "fall", "winter" are acceptable)
- Fifth line: is it a **holiday** or not ("Yes", "No" / "yes", "no" are acceptable)

Output

- One line: the **total prices of the bouquets** customers should pay.

Format the **prices** to the **2nd decimal place**.