

Vending Machine

Your task is to calculate the total price of a purchase from a vending machine. Until you receive **"Start"** you will be given different coins that are being inserted in the machine. You have to sum them in order to have the total money inserted. There is a problem though. Your vending machine only works with **0.1, 0.2, 0.5, 1, and 2** coins. If someone tries to insert some other coins you have to display **"Cannot accept {money}"** and **not** add it to the total money. On the next few lines until you receive **"End"** you will be given products to purchase. Your machine has however only **"Nuts"**, **"Water"**, **"Crisps"**, **"Soda"**, **"Coke"**. The prices are: **2.0, 0.7, 1.5, 0.8, 1.0** respectively. If the person tries to purchase a not existing product print **"Invalid product"**. Be careful that the person may try to purchase a product they don't have the money for. In that case print **"Sorry, not enough money"**. If the person purchases a product successfully print **"Purchased {product name}"**. After the **"End"** command print the money that are left formatted to the second decimal point in the format **"Change: {money left}"**.

Examples

Input	Output
1	Cannot accept 0.6
1	Purchased coke
0.5	Purchased soda
0.6	Sorry, not enough money
Start	Change: 0.70
Coke	
Soda	
Crisps	
End	