# Problem 1. Trainers

You expected something with lecturers? Nope, this is about Trainers – the train guys. So there are three teams of trainers – **The Technical Trainers**, **The Theoretical Trainers** and **The Practical Trainers**. They always compete about who will be most productive, so they’ve hired you – the best programmer, to calculate it, because they can’t.

You will receive **N**, an **integer** – the **number** of participants in the competition. For each participant, you will receive **3 input** lines:

* On the **first input line** you will receive an **integer** number – the **distance** to **travel** in **miles**.
* On the **second input line** you will receive a **floating-point** number – the **cargo** that is being **carried** in **tons**.
* On the **third input line** you will receive a string – the **team** of which the **current participant** is.

You can assume that **1 mile = 1600 meters** and **1 ton = 1000 kilogram**.

The data you were given will calculate the money earned by the current participant. You must calculate how much the **cargo’s total worth** is and then **subtract** from it the **fuel expenses**.

The train consumes **0.7 litters** of **fuel** for every **travelled** **meter**.

The **cargo** is worth **1.5** per **kilogram**.

The **fuel** is worth **2.5** per **litter**.

So the formula goes like:

participantEarnedMoney = {cargoInKillograms \* 1.5} – {0.7 \* distanceInMeters \* 2.5}

When you get the **earned money** of the **participant**, you should **add it** to the **total money** of the **team** he is from.

When you’ve processed all **participants**, print the **team** with the **most** **earned money**.

### Input

* On the **first line** of input you will get **N** – an integer.
* On the next **N \* 3** lines of input you will get data about participants.

### Output

* As output you must print the team with the **most earned money**, and its **earned money**.
* The **money** should be **rounded** to **3 digits** after the **decimal point**.
* The format is:   
  “The {teamName} Trainers win with ${totalEarnedTeamMoney}.”

### Constrains

* The **integer** **N** will be in **range [0, 1000]**.
* The **distance** in **miles** will be an **integer** in **range [0, 1.000.000]**.
* The **cargo** in **tons** will be a **floating-point number** in **range [0, 1.000.000]**.
* The **team** will either be “**Technical**”, “**Theoretical**” or “**Practical**”.
* Allowed time / memory: 100ms / 16 MB.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 2  10  25  Technical  1000  1550  Practical | The Technical Trainers win with $9500.000. | The first participant traveled **10** miles (**16000** meters) and carried **25** tons cargo (**25000** kilogram).  **0.7** (fuel consumption) **\* 16000**  **\* 2.5** (fuel price) = **28000$** (fuel expenses)  **1.5** (cargo price per kilogram) **\*** **25000** = **37500$** (cargo income)  **37500** **– 28000** = **9500$** for **Team** **Technical Trainers**.  The second participant goes like this  **0.7 \* 1600000 \* 2.5 = 2800000**  **1.5 \* 1550000 = 2325000**  **2325000 – 2800000 = -475000$** |
| 4  150  300  Theoretical  100  300  Practical  100  200  Practical  300  5000  Technical | The Technical Trainers win with $6660000.000. |  |