

1. Candy Calories

CandyCalories.java

CandyCalories.in

You're a gym bro with boulder shoulders and a chiseled six pack. It's leg day, but you decide to skip it again to go trick-or-treating by yourself because everyone is scared you might eat them as a protein source.

You are currently cutting and need to be below **1500** calories for the day. It's 8pm and you haven't eaten anything all day so you decide that your dinner will be the candy you acquire from houses in the neighborhood who give one type of candy to each house that has a number of calories each.

By the end of the night you drive home with a big bag of candy because biking or walking would count towards your cardio. Make sure you make the most out of halloween and eat the most candy you can before you reach your calorie limit!

Input

The first line of your input will contain a single integer, n , that represents how many houses you went to. The following n lines will contain your total candy brand (one word, like "Snickers" or "KitKat") you received from all of the houses along with two integers m & h representing how many candy you have of that type and how many calories are in it.

Output

Output a single integer representing the most amount of candy you can consume while still being under 1500 calories.

Example 1 input

5

KitKat 4 200

$\frac{200}{4}$

50

Snickers 6 150

$\frac{150}{6}$

25

ButterFingers 3 100

33.33...

SourPatchKids 4 300

75

JollyRanchers 6 50

$25/3 = 8.333...$

$$50 \times 6 = 300$$

low \Rightarrow high

Example 1 output

14

TreeMap <String, ArrayList<Integer, Double>>