## Eat a Good Meal

You're hungry, and you're about to be executed. You're planning your last meal, and you want to be sure you maximize your enjoyment. Pizza, for example, provides a 7/10 enjoyment level per slice, but takes up 20\% of your available stomach space per slice. Fudge, on the other hand, provides a 9/10 enjoyment level per square and uses only $2 \%$ of your available stomach space, but you can only eat 3 squares before you get sick of it.

Given a potential menu by your captors, including the enjoyment level it provides per unit, the stomach space required per unit, and the maximum number of units you can enjoy, plan the perfect final meal.

Input:
First line is an integer, representing the number of different items on the menu.
Each subsequent line is one menu item, formatted as "name spacePerUnit enjoymentPerUnit maxUnits".

Output:
The maximum amount of enjoyment you can get from the available menu within 100 stomach space, as an integer.

| Input | Output |
| :---: | :---: |
| 3 | 61 |
| Pizza 2075 |  |
| Fudge 293 |  |
| Soda 533 |  |
| 4 | 70 |
| Burrito 10410 |  |
| Apple 552 |  |
| Pie 582 |  |
| Cookies 244 |  |
| 4 | 31 |
| Steak 2081 |  |
| Potato 1042 |  |
| Vegetables 10110 |  |
| Sundae 1562 |  |

