A. There Are Two Types Of Burgers

time limit per test
1 second
memory limit per test
256 megabytes
input
standard input
output
standard output

There are two types of burgers in your restaurant — hamburgers and chicken burgers! To assemble a hamburger you need two buns and a beef patty. To assemble a chicken burger you need two buns and a chicken cutlet.

You have b buns, p beef patties and f chicken cutlets in your restaurant. You can sell one hamburger for h dollars and one chicken burger for c dollars. Calculate the maximum profit you can achieve.

You have to answer t independent queries.

Input

The first line contains one integer t ($1 \le t \le 100$) – the number of queries.

The first line of each query contains three integers b, p and f ($1 \le b,\ p,\ f \le 100$) — the number of buns, beef patties and chicken cutlets in your restaurant.

The second line of each query contains two integers h and c ($1 \le h,\ c \le 100$) — the hamburger and chicken burger prices in your restaurant.

Output

For each query print one integer — the maximum profit you can achieve.

Example

input

Copy

```
3
15 2 3
5 10
7 5 2
10 12
1 100 100
100 100
```

output

Copy

```
40
34
0
```

Note

In first query you have to sell two hamburgers and three chicken burgers. Your income is $2 \cdot 5 + 3 \cdot 10 = 40$.

In second query you have to ell one hamburgers and two chicken burgers. Your income is $1 \cdot 10 + 2 \cdot 12 = 34$.

In third query you can not create any type of burgers because because you have only one bun. So your income is zero.