

HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP CALENDAR PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS STANDINGS CUSTOM INVOCATION

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 gueries.

Input

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

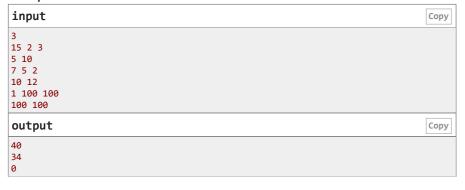
The first line of each query contains three integers b, p and f ($1 \le b$, p, $f \le 100$) — the number of buns, beef patties and chicken cutlets in your restaurant.

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



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.

Educational Codeforces Round 71 (Rated for Div. 2)

Finished

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?		
Language:	GNU G++11 5.1.0 ▼	
Choose file:	选择文件 未选择任何文件	
	Submit	

→ Problem tags		
brute force greedy	implementation	
700	No tag edit access	

→ Contest materials			
 Announcement #1 (en) 	×		
 Announcement #2 (ru) 	\times		
• Tutorial #1 (en)	×		
 Tutorial #2 (en) 	×		

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