## Bridge

Find a place to build a bridge over the river, so as to minimize total cost of the route between two cities $A$ and $B$, located on opposite sides of the river.


## Input

There is a single positive integer $T$ on the first line of input (equal to about 100000). It stands for the number of test cases to follow. Each test case is exactly one line, containing six integers $a, b$, $c, h, s 1$ and s2 ( $0<a, b, c, h, s 1, s 2<100$ ), separated by spaces. a the distance from city $A$ to the river (the length of segment $A E$ in the figure), $b$ - the distance from city $B$ to the river (the length of segment $F G$ in the figure), $c$ - the distance between $A$ and $B$ along the axis parallel to the river (the length of segment $B F$ in the figure) and $h$ - the width of the river ( $E G$ in the figure). $s 1$ and s2 are the costs of unit of road and bridge respectively.

## Output

For each test case your program should write a single number to the standard output, equal to the minimal total cost of the route between $A$ and $B$, accurate up to two digits after the decimal dot.

## Example

## Input:

1
111111

## Output:

