

Help The Civil Engineer



Dilan is a Civil Engineer who graduated from the University of Peradeniya. He got his first job at ‘DML’ construction company as a site engineer. The main operation of this company is constructing large buildings. While they are constructing buildings, they implemented a star point system to keep balance of the cost and quality of products.

Concrete mix designing is a simple method in civil engineering which categorizes the strength of a concrete cube with the ratio of cement, sand and crushed stones. The table below illustrates the variation of concrete strength according to its mixed ratios.

Mix design type	Ratios			Strength
	Cement	Sand	Crushed stone	
M5	1	5	10	5
M7.5	1	4	8	7.5
M10	1	3	6	10
M15	1	2	4	15
M20	1	1.5	3	20
M25	1	1	2	25
M30	1	1	1.5	30

For example, we can make 10kg of M10 concrete by mixing 1 kg of cement, 3kg of sand and 6kg of crushed stone according to the above table (we will neglect the weight of water used for the mixing).

As mentioned above, this company uses a star point method to keep up the quality in construction projects. Which means that they give a number of stars for using the above mix design for constructing structural elements. Stars are awarded according to the strength and the type of structural element and per kg of the element made.

The star point method is as follows,

Quality Stars Table

Structural element	Stars per 1 kg of concrete according to used mix design type		
	3 Stars	2 Stars	1 Stars
Screed	M10	M7.5	M5
Beam	M20	M15	M10
Slab	M25	M20	M15
Column	M30	M25	M20

For example, we can make a concrete beam using M20, M15 or M10 mix design types. Furthermore if we make 10kg concrete beam using M15 mix we can earn 20 stars.

For controlling the cost, the company deducts a star for every 5\$.

Cost Table

Type of material	Cost per kg (\$)
Cement	150
Sand	10
Crushed stone	1

Note : A new structural element initially has 10 stars per kg.

Dilan has to make various type of structural elements everyday in construction projects and he has to earn a maximum number of stars for each project. The company has informed Dilan that he should not use the same quality of product for 2 different products. You have to implement a program which helps him to find the best combination of mix design types to earn a maximum number of stars for each project.

Input Format

There will be 4 space-separated integers (A,B,C,D) as input.

- A: Weight of concrete screeds in Kg.
- B: Weight of concrete beams in Kg.
- C: Weight of concrete slabs in Kg.
- D: Weight of concrete columns in Kg.

Constraints

$0 \leq A, B, C, D \leq 10^5$

Output Format

Print the total number of maximum stars that can be earned from each project.

Sample Input

0 10 10 0

Sample Output

134

Explanation

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