



PRACTICE

COMPETE

JOBS

LEADERBOARD

Search



adityakaria ▾

All Competitions > BFME 1.0 > VICHITR AND ALGORITHMS

VICHITR AND ALGORITHMS

by failed_coder

Problem

Submissions

Leaderboard

Discussions

Vichitr recently came across N algorithms and he has M time with him. He lives in TIMEWORLD. In TIMEWORLD he can learn algorithms by paying in time(like on Earth we can buy things using Money) and can also sell algorithms for getting time (Such a weird(Vichitr) world it is...). Now he can increase his efficiency to 100% in any algorithm by paying with X amount of time. Also he can sell his any algorithm knowledge (whether efficient or not) at a price of Y time.

Compute the maximum number of algorithms in which Vichitr can become efficient.

Input Format

Input will have 4 integers N, M, X, Y representing Algorithms, Time, Cost to become efficient in an algorithm and price of an algorithm.

Constraints

 $1 \leq N, M, X, Y \leq 10^8$

Output Format

Output a single integer representing the maximum number of algorithms in which he can become efficient.

Sample Input 0

```
5 10 2 1
```

Sample Output 0

```
5
```

Sample Input 1

```
100 20 200 1
```

Sample Output 1

```
0
```

[f](#) [t](#) [in](#)

Contest ends in 2 minutes

Submissions: 14



Max Score: 15

Difficulty: Medium

Rate This Challenge:

☆☆☆☆☆


[More](#)

Current Buffer (saved locally, editable)  

```
1▼ #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6▼ int main() {
7
8▼     /* Enter your code
   here. Read input from
   STDIN. Print output to
   STDOUT */
9     return 0;
10 }
11
```

C 

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)