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How many submissions

1 points

Introduction

George and his friends enjoy programming contests like HP CodeWars. So, they created their own contest to train and have fun coding with friends.

As you can imagine, the contest server must be a robust component to manage submissions that can potentially freeze the system. George found out that the hard disk space is not released after each submission, so they need to calculate the space they will need according the amount of submissions expected.

Let's help them with a simple program that does the math for us.

Input

The input will be a pair of positive integer values.

The first value is the total amount of submissions made during the contest.

The second value in MB (megabytes) represents the memory needed to evaluate a submission.

Output

The output will be a positive integer value, also in MB, representing the total space needed to run the contest comfortably.

Example

Input

522

980

Output

511560