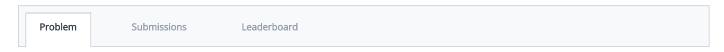
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T 103 - Negative Marking



Raju is giving his JEE Main exam. The exam has **Q** questions and Raju needs **S** marks to pass. Giving the correct answer to a question awards the student with 4 marks whereas giving the incorrect answer to a question awards the student with negative 3 (-3) marks. If a student chooses to not answer a question at all, he is awarded 0 marks.

Write a program to calculate the minimum accuracy that Raju will need in order to pass the exam.

Input

Input consists of multiple test cases.
Each test case consists of two integers **Q** and **S**

Output

Print the minimum accuracy upto 2 decimal places Print -1 if it is impossible to pass the exam

Sample Input 0

2 10 40 10 33

Sample Output 0

100.00 90.00

Contest ends in an hour

Submissions: 383

Max Score: 100

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