



Home » Compete » February Lunchtime 2022 Division 4 » Watching Movies at 2x » Submit Solution

Switch to Non-IDE mode

Contest Code: [LTIME105D](#) Problem Code: [MOVIE2X](#)



Chef started watching a movie that runs for a total of X minutes.

Chef has decided to watch the first Y minutes of the movie at **twice** the usual speed as he was warned by his friends that the movie gets interesting only after the first Y minutes.

How long will Chef spend watching the movie in **total**?

Note: It is guaranteed that Y is **even**.

Input Format

- The first line contains two space separated integers X, Y - as per the problem statement.

Output Format

- Print in a single line, an integer denoting the total number of minutes that Chef spends in watching the movie.

Constraints

- $1 \leq X, Y \leq 1000$
- Y is an even integer.

Subtasks

Subtask #1 (100 points): original constraints

Sample Input 1

100 20

Sample Output 1

90

Explanation

For the first $Y = 20$ minutes, Chef watches at twice the usual speed, so the total amount of time spent to watch this portion of the movie is $\frac{Y}{2} = 10$ minutes.

For the remaining $X - Y = 80$ minutes, Chef watches at the usual speed, so it takes him 80 minutes to watch the remaining portion of the movie.

In total, Chef spends $10 + 80 = 90$ minutes watching the entire movie.

Sample Input 2

50 24

Sample Output 2

38

Explanation

For the first $Y = 24$ minutes, Chef watches at twice the usual speed, so the total amount of time spent to watch this portion of the movie is $\frac{Y}{2} = 12$ minutes.

For the remaining $X - Y = 26$ minutes, Chef watches at the usual speed, so it takes him 26 minutes to watch the remaining portion of the movie.

In total, Chef spends $12 + 26 = 38$ minutes watching the entire movie.

Status Correct Answer ✓ Time 0.08 sec Solution 59283231



Sub-Task	Task #	Result (time)
1	0	AC (0.081660)
1	1	AC (0.079192)
1	2	AC (0.081244)
1	3	AC (0.079488)
1	4	AC (0.079976)
Subtask Score: 100.00%		Result - AC
Total Score = 100.00%		

JAVA

Code gets autosaved every second

```
1  /* package codechef; // don't place package name! */
2
3  import java.util.*;
4  import java.lang.*;
5  import java.io.*;
6
7  /* Name of the class has to be "Main" only if the class is public. */
8  class Codechef
9  {
10     public static void main (String[] args) throws java.lang.Exception
11     {
12         Scanner sc = new Scanner(System.in);
13         int n = sc.nextInt();
14         int m = sc.nextInt();
15         System.out.println(n - m + (m / 2));
16     }
17 }
18
```

14:37

Open File

Run

Submit

Custom Input

50 24

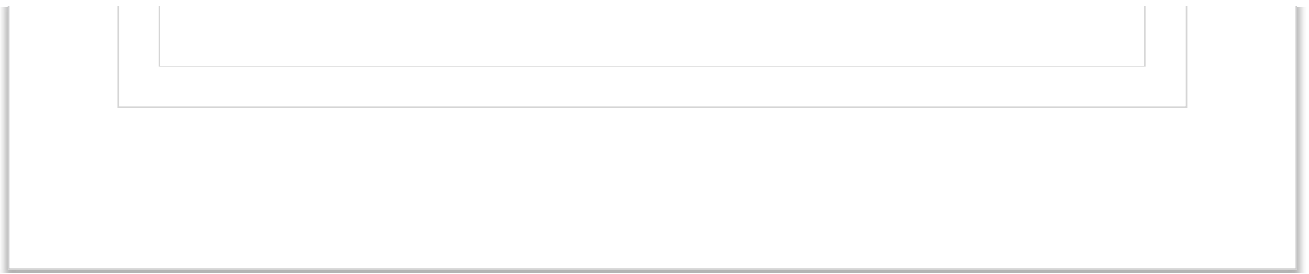
Status Successfully executed Date 2022-03-01 15:17:09 Time 0.081842 sec Mem 41.016 kB

Input

50 24

Output

38



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