

**CodeCheck Report: trainingQRYR83-P9G**

Test Name:

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Summary

Timeline

## Tasks summary

Task	Time spent	Score
TennisTournament Python	4 min	100%

## Total score



## Tasks Details

1.

**TennisTournament**

Elementary

Given the numbers of players and available courts, calculate the maximum number of parallel tennis games.

## Task Score

100%

## Correctness

100%

## Performance

Not assessed

## Task description

You are hosting a tennis tournament.  $P$  players, who will take part in the first round of this tournament, are already registered and you have reserved  $C$  tennis courts for the matches. Exactly two players play in each game and only one game can be played on each court at any given time. You want to host the maximum possible number of games starting at the same time (in order to finish the first round quickly).

How many games can be hosted in parallel simultaneously?

Write a function:

```
def solution(P, C)
```

that, given the number of players  $P$  and the number of reserved courts  $C$ , returns the maximum number of games that can be played in parallel.

## Solution

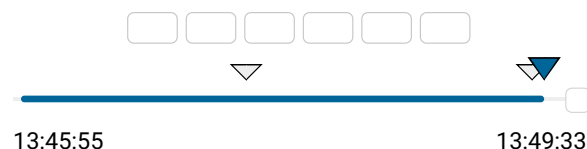
Programming language used: Python

Total time used: 4 minutes ?

Effective time used: 4 minutes ?

Notes: *not defined yet*

## Task timeline ?



**Examples:**

1. Given  $P = 5$  players and  $C = 3$  available courts, the function should return 2. Two games can be played simultaneously (for instance, the first and second players can play on the first court, and the third and fourth players on the second court, and the third court will be empty because the fifth player does not have a partner to play with).

2. Given  $P = 10$  players and  $C = 3$  courts, the function should return 3. At most three games can be hosted in parallel.

Assume that:

- $P$  and  $C$  are integers within the range  $[1..30,000]$ .

In your solution, focus on **correctness**. The performance of your solution will not be the focus of the assessment.

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Code: 13:49:32 UTC, py, [show code in pop-up](#)  
final, score: 100

```
1 # you can write to stdout for debugging purposes
2 # print("this is a debug message")
3
4 def solution(P, C):
5     # Implement your solution here
6     max_games_players = P // 2
7
8     # The maximum number of games that can
9     max_games = min(max_games_players, C)
10
11     return max_games
```

**Analysis summary**

The solution obtained perfect score.

**Analysis**

expand all	Example tests
▶	example1 <span>✓ OK</span> First example test.
▶	example2 <span>✓ OK</span> Second example test.
expand all	Correctness tests
▶	two_players <span>✓ OK</span> Two players.
▶	one_court <span>✓ OK</span> One court.
▶	even_players_less_courts <span>✓ OK</span> Number of players is even and there are less courts than pairs of players.
▶	odd_players_less_courts <span>✓ OK</span> Number of players is odd and there are less courts than pairs of players.
▶	even_players_more_courts <span>✓ OK</span> Number of players is even and there are more courts than pairs of players.
▶	odd_players_more_courts <span>✓ OK</span> Number of players is odd and there are more courts than pairs of players.
▶	everybody_plays <span>✓ OK</span> Number of pairs of players equals number of courts.
▶	random_tests <span>✓ OK</span> Randomly generated tests.