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Leetcode Easy (4)

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codestorywithMIK

Count Of

atches in Tournament...







## 1688. Count of Matches in Tournament

Hint



Easy



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You are given an integer [n], the number of teams in a tournament that has strange rules:

- If the current number of teams is **even**, each team gets paired with another team. A total of  $n \neq 2$  matches are played, and  $n \neq 2$  teams advance to the next round.
- If the current number of teams is **odd**, one team randomly advances in the tournament, and the rest gets paired. A total of (n-1) / 2 matches are played, and (n - 1) / 2 + 1 teams advance to the next round.

Return the number of matches played in the tournament until a winner is decided.

Example : n = 7

Output = 6

 $1 \rightarrow odl \rightarrow matcher = (7-1)/2 = 3$ 

/2+1=4) -> even -> matches = (4/2)

 $(2)=2 \rightarrow \text{even} \rightarrow \text{mata} = 2/2$ 

2/2=12



Cole:

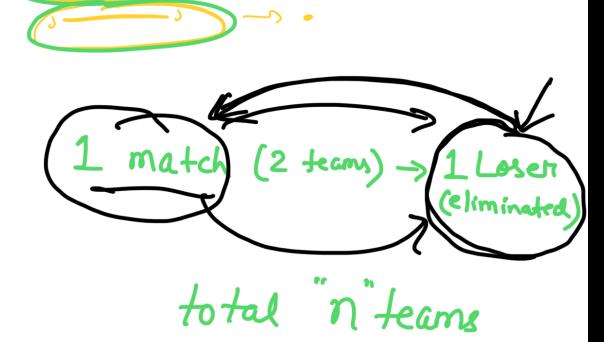
if (n/2 ==0) {// Even

 $\frac{\text{matches} + = n/2;}{n = n/2;}$ 

n = (n-1)/2 + 1

rel resuri-

n ( ?ven).



Winner = Climinated = (n-1) matches= (n-1) Metur (n-1) ;

n=7 - 1 6 p n=10 - 1 9