- Given: an integer n, representing the number of teams in a tournament.

- If the current number of teams is <u>even</u>, each team gets paired w/ another team.
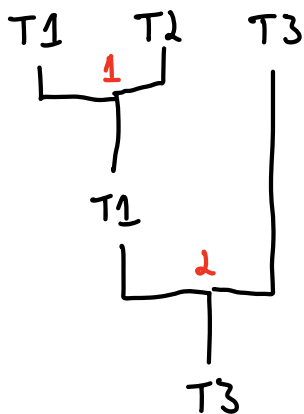
  $n/2$ matches are played, $n/2$ teams progress.

- If the current number of teams is <u>odd</u>, one team automatically advances.

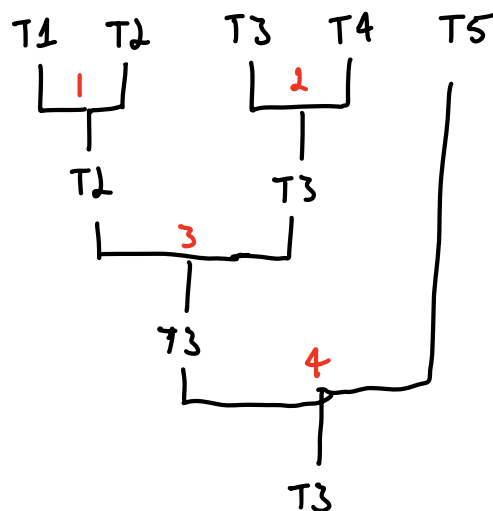 $\dfrac{(n-1)}{2}$ matches are played, $\dfrac{(n-1)}{2} + 1$ teams progress.

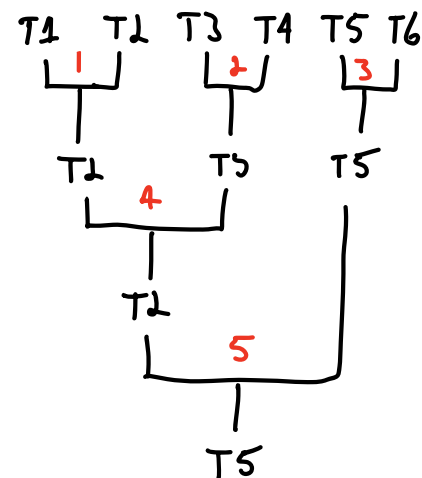Return the number of games played until a winner is decided

n = 3

Ans: 2

n = 5

Ans: 4

n = 6

ans: 5