

Time complexity calculation

- For any given value of n in the program the function starLogic runs $(2n-1)$ times i.e $O(n)$ times.
- In each iteration of starLogic function the function printStars runs 1 time.
- Each iteration of printStars prints at most $(2n-1)$ characters and hence takes $O(n)$ time.

Hence the time complexity of the program is $O(n*n) = O(n^2)$