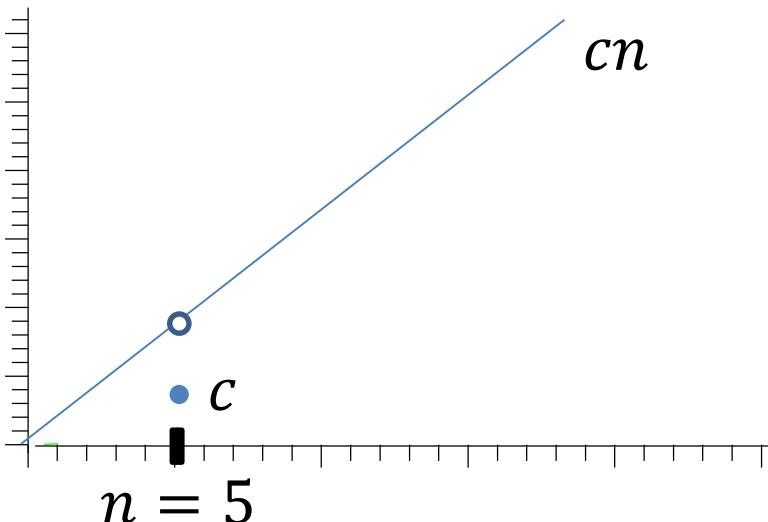


# Best Case Running Time Exercise

- $$T(n) = \begin{cases} c & \text{if } n = 5 \\ cn & \text{otherwise} \end{cases}$$



**Algorithm *Mystery*( $A, n$ )**

```
Input: array  $A$  of  $n$  integers
if  $n == 5$ 
    return  $A[0]$ 
else
    for  $i \leftarrow 1$  to  $n - 1$  do
        print( $A[i]$ )
    return
```

- Best case running time?

- a)  $\Theta(1)$
- b)  $\Theta(n)$