|  |  |
| --- | --- |
| Step # | Value Returned |
| 1 | n/a |
| 2 | n/a |
| 3 | 3 |
| 4 | n/a |
| 5 | n/a |
| 6 | 8 |
| 7 | 2 |
| 8 | n/a |
| 9 | n/a |
| 10 | 1 |
| 11 | n/a |
| 12 | n/a |
| 13 | 6 |
| 14 | 7 |
| 15 | n/a |
| 16 | 4 |
| 17 | 9 |
| 18 | 5 |

Give the Big-O performance of the following code fragment:

i = 1

while i < n

i = i + i

Answer: O(N)

Give the Big-O performance of the following code fragment:

for i in range(n):

for j in range(n\*n):

for k in range(n):

k = 2 + 2

Answer: O(log n)