C. What values are returned during the following series of stack operations, if executed upon an initially empty stack? If no value is returned, simply put NA.

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

D. 1. Give the Big-O performance of the following code fragment:

i = 1

While i < n

i = i + i

Answer: O(n)

2. 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(n^4)