1. a=5, i=1, j=1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **i++** | **a** | **i<=a** | **j++** | **j<=i** | **Print(j)** | **New Line**  **(j=1)** | **Result** |
| 1 | 5 | True | 1 | True | 1 | True | 1 |
| 1 | 5 | True | 2 | False | - | - | - |
| 2 | 5 | True | 1 | True | 1 | False | 1  1 |
| 2 | 5 | True | 2 | True | 2 | True | 1  12 |
| 2 | 5 | True | 3 | False | - | - | - |
| 3 | 5 | True | 1 | True | 1 | False | 1  12  1 |
| 3 | 5 | True | 2 | True | 2 | False | 1  12  12 |
| 3 | 5 | True | 3 | True | 3 | True | 1  12  123 |
| 3 | 5 | True | 4 | False | - | - | - |
| 4 | 5 | True | 1 | True | 1 | False | 1  12  123  1 |
| 4 | 5 | True | 2 | True | 2 | False | 1  12  123  12 |
| 4 | 5 | True | 3 | True | 3 | False | 1  12  123  123 |
| 4 | 5 | True | 4 | True | 4 | True | 1  12  123  1234 |
| 4 | 5 | True | 5 | False | - | False | - |
| 5 | 5 | True | 1 | True | 1 | False | 1  12  123  1234  1 |
| 5 | 5 | True | 2 | True | 2 | False | 1  12  123  1234  12 |
| 5 | 5 | True | 3 | True | 3 | False | 1  12  123  1234  123 |
| 5 | 5 | True | 4 | True | 4 | False | 1  12  123  1234  1234 |
| 5 | 5 | True | 5 | True | 5 | False | 1  12  123  1234  12345 |
| 5 | 5 | True | 6 | False | - | - | - |
| 6 | 5 | False | 1 | - | - | - | - |

1. B
2. a=5, i=1, j=1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **i++** | **a** | **i<=a** | **j++** | **j<=i** | **Print(i)** | **New line**  **(j=i)** | **Result** |
| 1 | 5 | True | 1 | True | 1 | True | 1 |
| 1 | 5 | True | 2 | False | - | - | - |
| 2 | 5 | True | 1 | True | 2 | False | 1  2 |
| 2 | 5 | True | 2 | True | 2 | True | 1  22 |
| 2 | 5 | True | 3 | False | - | - | - |
| 3 | 5 | True | 1 | True | 3 | False | 1  22  3 |
| 3 | 5 | True | 2 | True | 3 | False | 1  22  33 |
| 3 | 5 | True | 3 | True | 3 | True | 1  22  333 |
| 3 | 5 | True | 4 | False | - | - | - |
| 4 | 5 | True | 1 | True | 4 | False | 1  22  333  4 |
| 4 | 5 | True | 2 | True | 4 | False | 1  22  333  44 |
| 4 | 5 | True | 3 | True | 4 | False | 1  22  333  444 |
| 4 | 5 | True | 4 | True | 4 | True | 1  22  333  4444 |
| 4 | 5 | True | 5 | False | - | - | - |
| 5 | 5 | True | 1 | True | 5 | False | 1  22  333  4444  5 |
| 5 | 5 | True | 2 | True | 5 | False | 1  22  333  4444  55 |
| 5 | 5 | True | 3 | True | 5 | False | 1  22  333  4444  555 |
| 5 | 5 | True | 4 | True | 5 | False | 1  22  333  4444  5555 |
| 5 | 5 | True | 5 | True | 5 | False | 1  22  333  4444  55555 |
| 5 | 5 | True | 6 | False | - | - | - |
| 6 | 5 | False | 1 | - | - | - | - |

1. a=5, i=a, j=1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **i--** | **a** | **i>=1** | **j++** | **j<=i** | **Print(i)** | **Newline**  **(j=i)** | **Result** |
| 5 | 5 | True | 1 | True | 5 | False | 5 |
| 5 | 5 | True | 2 | True | 5 | False | 55 |
| 5 | 5 | True | 3 | True | 5 | False | 555 |
| 5 | 5 | True | 4 | True | 5 | False | 5555 |
| 5 | 5 | True | 5 | True | 5 | True | 55555 |
| 5 | 5 | True | 6 | False | - | - | - |
| 4 | 5 | True | 1 | True | 4 | False | 55555  4 |
| 4 | 5 | True | 2 | True | 4 | False | 55555  44 |
| 4 | 5 | True | 3 | True | 4 | False | 555555  444 |
| 4 | 5 | True | 4 | True | 4 | True | 55555  4444 |
| 4 | 5 | True | 5 | False | - | - | - |
| 3 | 5 | True | 1 | True | 3 | False | 55555  4444  3 |
| 3 | 5 | True | 2 | True | 3 | False | 55555  4444  33 |
| 3 | 5 | True | 3 | True | 3 | True | 55555  4444  333 |
| 3 | 5 | True | 4 | False | - | - | - |
| 2 | 5 | True | 1 | True | 2 | False | 55555  4444  333  2 |
| 2 | 5 | True | 2 | True | 2 | True | 55555  4444  333  22 |
| 2 | 5 | True | 3 | False | - | - | - |
| 1 | 5 | True | 1 | True | 1 | False | 55555  4444  333  22  1 |
| 1 | 5 | True | 2 | False | - | - | - |
| 0 | 5 | False | 1 | - | - | - | - |