A)

1.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | B | C | X | Y | Z | Saída |
| 1 | 2 | 3 | ~~1~~ | ~~2~~ | ~~3~~ | 1, 2, 3 |
|  |  |  | 101 | 102 | 103 | 101, 102, 103 |
|  |  |  |  |  |  | 1, 2, 3 |

2.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A | B | C | \*n1 | \*n2 | \*n3 | Saída |
| ~~1~~ | ~~2~~ | ~~3~~ | ~~1~~ | ~~2~~ | ~~3~~ | 1, 2, 3 |
| 101 | 102 | 103 | 101 | 102 | 103 | 101, 102, 103 |
|  |  |  |  |  |  | 101, 102, 103 |

3.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| a | b | \*primeiro | segundo | Saída |
| ~~0~~ | 5 |  |  | Valor de a: 0  Valor de b: 5 |
| 5 |  | 5 | 5 | Valor de a: 5  Valor de b: 5 |

4.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x | y | z | a | b | c | \*a | \*b | \*c | Saída |
| ~~2~~ | ~~4~~ | ~~6~~ | ~~2~~ | ~~4~~ | ~~6~~ | ~~2~~ | ~~4~~ | ~~6~~ | Antes de chamar por\_valor: x = 2  y = 4  z = 6 |
|  |  |  | 0 | 0 | 0 |  |  |  | Depois de chamar por\_valor: x = 2 y = 4  z = 6 |
|  |  |  |  |  |  |  |  |  | Antes de chamar por\_ref:  x = 2  y = 4  z = 6 |
| 0 | 0 | 0 |  |  |  | 0 | 0 | 0 | Depois de chamar por\_ref:  x = 0  y = 0  z = 0 |

5.

|  |  |  |
| --- | --- | --- |
| i | \*num | Saída |
| 1 | ~~1~~  11 | 11 |
|  |  | 11 |

6.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | y | \*a | b | Saída |
| ~~4~~ | 2 | ~~4~~ | ~~2~~ |  |
| 8 |  | 8 | 7 | 8, 7 |
|  |  |  |  | X=8  y=2 |

7.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a | b | s | A <=b? | x | y | \*z | i | i<=y? | Saída |
| 2 | 4 | ~~0~~ 3 | V | 2 | 4 | ~~0~~ 3 | ~~2~~ | V |  |
|  |  | ~~3~~ 6 |  |  |  | ~~3~~ 6 | 3 | V |  |
|  |  |  |  |  |  |  |  | F |  |
|  |  |  |  |  |  |  |  |  | A soma de 2 e 4 → 6 |

B)

Sim, caso haja a leitura da variável z ela vai possuir um conteúdo que nesse fragmento de código ainda não existe.