Data Structures & Algorithm

Activity #1

Activity\_1 CASTILLO, KIM ALLEN C,

Numbers to Compare: 5, 7, 6, 9, 4, ,2, 8, 3, 10, 1

N = 10

NUM1 = 0

LARGE =9

FOR i from 1 to 10:

INPUT NUM1

IF NUM1 Greater than LARGE

LARGE = NUM1

IF COUNT == N

PRINT LARGE

ELSE

COUNT++

RETURN

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N =10 | NUM1 | NUM1 > LARGE | COUNT | OUTPUT |
| 0 | NUM1 = 5 |  |  |  |
| 1 | LARGE = 9  COUNT = 2 | 5 > 9 | COUNT 2+1 |  |
| 2 | NUM1 =7 | 7 > 9 | COUNT 3 + 1 |  |
| 3 | NUM1 = 6 | 6 > 9 | COUNT 4 + 1 |  |
| 4 | NUM1 = 9 | 9 > 9 | COUNT 5 + 1 |  |
| 5 | NUM1 = 4 | 4 > 9 | COUNT 6 + 1 |  |
| 6 | NUM1 = 2 | 2 > 9 | COUNT 7 + 1 |  |
| 7 | NUM1 = 8 | 8 > 9 | COUNT 8 +1 |  |
| 8 | NUM1 =3 | 3 > 9 | COUNT 9 +1 |  |
| 9 | NUM1 = 10 | 10 > 9 |  | 10 |

NUMBERS TO COMPARE: 5, 7, 6, 9, 4, ,2, 8, 3, 10, 1

ELSE

END

START

Input value of LARGE

Input NUM1

NUM1 > LARGE

COUNT = 2

Input numbers to compare

COUNT + 1

Print LARGE

Set LARGE to NUM1

COUNT <> N

Return