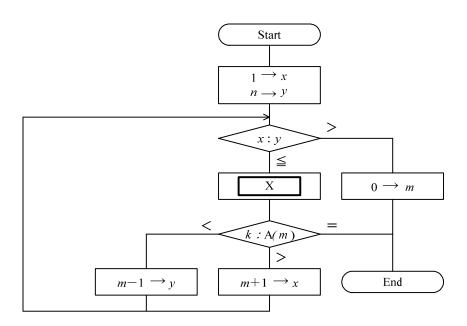
**Q16.** The flowchart below shows a binary search algorithm to find the index m of the array element A(m), such that the equation "A(m) = k" holds, from the array elements A(1), A(2), ..., A(n) already sorted in ascending order. In case of "m = 0" at the end, there is no element such that the equation "A(m) = k" holds. Which of the following is inserted in the process box X in the flowchart? Here, the slash (/) indicates division that truncates all digits after the decimal point.



a) (x+y) m

b) (x+y)/2 m

c) (x-y)/2 m

d) (y-x)/2

m