1. LINEARSEARCH

import java.io.\*;

class main {

public static int search(int arr[], int N, int x)

{

for (int i = 0; i < N; i++) {

if (arr[i] == x)

return i;

}

return -1;

}

public static void main(String args[])

{

int arr[] = { 2, 3, 4, 10, 40 };

int x = 10;

int result = search(arr, arr.length, x);

if (result == -1)

System.out.print(

"Element is not present in array");

else

System.out.print("Element is present at index "+ result);

}

}