**Algorithm of Linear search program**

1) Start.

2) Input the number of elements (x) in the list.

3) If x is negative, print "Number of elements cannot be negative." and stop.

4) Initialize an empty list (list\_1).

5) For each i from 1 to x:

* Get an element from the user.
* Append the element to list\_1.

6) Input the target element to search for.

7) Initialize flag to 0.

8) For each index i in the list:

* If the element at i matches the target:
  + - * Set flag to 1.
      * Print the position of the element as i + 1.
      * Break the loop.

9)After the loop, check the value of flag:

* If flag is still 0, print "The element is not found".

10) End.