Q1 Write a program of linear search for
t test cases, which also prints the no.
of comparisons made in each test case.
Print "key found" if found, print "key
not found", if not found in the array.

→

Pseudo code:-

```
int i, j, n, t, comp, k, flag = 0;
l = 0 ;      scanf ("%d", &t)
         while (i! = t)
{
         scanf ("%d", &n);
         int A[n];
      for (j=0; j<n; j++)
         scanf ("%d", &A[i]);
         scanf ("%d", &k);
         comp = 0 ;  flag = 0;
         for (j=0; j<n; j++)
         {
               comp ++;
               if (k == A[j])

         {
   printf ("key found");
```

```
            printf ("no. of compaxibons = %od", comp);
                                              flag ++;
                break;
                  C++;
        }
              if (flag == 0)
                  print ("key not found");
              }
```