Practical-4

Batch: AB14

• Implement a function of sequential search and count the steps executed by function on various inputs for best case and worst case. Also write complexity in each case and draw a comparative chart.

Code:

```
#include <stdio.h>
int main() {
       int step=1;
       int i;
       int a[]=\{77,102,86,109,84\};
       printf("Enter which element you want to search:\n");
       scanf("%d",&s);
       int count=0;
       for(i-0;i<6;i++,step++)
          count++;
          if(a[i]==s){
            printf("element is %d at position %d",s,i+1);
            printf("\nstep count=%d",count);
          }
       }
       if(count==0 \&\& i>6){
         printf("element not found");
       }
}
```

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OUTPUT:

Stat	sus Successfully executed	Date 2022-04-	24 05:14:02 Time	0.008504 sec	Mem 5.46	kB ×	
ı	nput						
	77						
(Output						
	Enter which element you wa element is 77 at position step count=1						

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