Algorithm Lab

Assignment-12

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1. You are given n activities with their start and finish times. Select the maximum number of activities that can be performed by a single person, assuming that a person can only work on a single activity at a time.

Code:

```
#include<stdio.h>

void printMaxActivities(int s[], int f[], int n)
{
   int i, j;

   printf("Maximum set of activities selected\n");
   i = 0;
   printf("%d " , i);
   for (j = 1; j < n; j++)
   {
     if (s[j] >= f[i])
     {
        printf("%d " , j);
        i = j;
     }
   }
}
int main()
{
   int n;
   printf("Enter n");
   scanf("%d", &n);
   int start[n],finish[n];
   printf("Enter n start times");
   for(int i = 0 ; i < n ; i++)
   {
      scanf("%d" , &start[i]);
```

```
    }
    printf("Enter n finish times");
    for(int i = 0 ; i < n ; i++)
    {
        scanf("%d" , &finish[i]);
    }
    printMaxActivities(start , finish , n);
    return 0;
}
```

Output: