```
 GNU nano 6.2
#include <stdio.h>
#include <unistd.h>
#include <math.h>
void insertionSort(int arr[],int n){
        int i,key,j;
        for(i=1;i<n;i++){
                key = arr[i];
                j=i-1;
                while(j>=0 && arr[j]>key){
                        arr[j+1] = arr[j];
                        j=j-1;
                }
                arr[j+1]=key;
        }

}

void selectionSort(int arr[],int n){
        int i,j,small;
        for(i=0;i<n-1;i++){
                small = i;
                for(j=i+1;j<n;j++){
                        if (arr[j]<arr[small]){
                                small=j;
                                int temp = arr[small];
                                arr[small] = arr[i];
                                arr[i] = temp;
                        }
                }
        }
}
```

PC1

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Command Prompt

```
Pinging 192.168.10.98 with 32 bytes of data:

Request timed out.
Reply from 192.168.10.98: bytes=32 time=1ms TTL=126
Reply from 192.168.10.98: bytes=32 time=3ms TTL=126
Reply from 192.168.10.98: bytes=32 time=3ms TTL=126

Ping statistics for 192.168.10.98:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 3ms, Average = 2ms

C:\>ping 192.168.10.98

Pinging 192.168.10.98 with 32 bytes of data:

Reply from 192.168.10.98: bytes=32 time=8ms TTL=126
Reply from 192.168.10.98: bytes=32 time=1ms TTL=126
Reply from 192.168.10.98: bytes=32 time=1ms TTL=126
Reply from 192.168.10.98: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.10.98:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 8ms, Average = 2ms

C:\>D
```

Top

PC0

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Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>tracert 192.168.10.130

Tracing route to 192.168.10.130 over a maximum of 30 hops:

  1    2 ms      13 ms     0 ms      192.168.10.1
  2    5 ms      1 ms      4 ms      192.168.10.66
  3    *         15 ms     0 ms      192.168.10.130

Trace complete.

C:\>
```

Top

```
void printArray(int arr[],int n){
        int i;
        for(i=0;i<n;i++){printf("%d ",arr[i]);}
        printf("\n");
}

int main(){
        int arr[] = {1,5,6,3,10,11};
        int pid;
        int n= sizeof(arr)/ sizeof(arr[0]);
        pid = fork();
        if(pid==0){
                selectionSort(arr,n);
                printf("SelectionSort : ");
                printArray(arr,n);
        }
        else{
                sleep(1);
                insertionSort(arr,n);
                printf("insertion sort : ");
                printArray(arr,n);
        }
}
```

```
pardha@pardha-virtual-machine:~$ nano test.c
pardha@pardha-virtual-machine:~$ gcc test.c
pardha@pardha-virtual-machine:~$ ./a.out
SelectionSort : 1 3 5 6 10 11
insertion sort : 1 3 5 6 10 11
pardha@pardha-virtual-machine:~$
```