```
#include<stdio.h>
#define max 100
//queue essentials
int queue[max];
int front=-1, rear=-1; //making front 0 for avoiding much conditions while
dequeue
int pid[4]=\{1,2,3,4\};
int a[4]=\{0,1,2,4\};
int b[4]={5,3,4,1};
int rbt[4]={5,3,4,1};
int sts[4]={0,0,0,0};
int ct[4]=\{0,0,0,0,0\};
int count=4;
int jtime=100; //just initialized to high
void process_Ps()
{
    int index=-1;
    int min_rbt=100;
    for(int i=0;i<4;i++)
        if(a[i]<=jtime&&sts[i]!=1)</pre>
        {
            if(rbt[i]<min_rbt)</pre>
                 min_rbt=rbt[i];
                 index=i;
            }
        }
    }
    //got the index
    if(index!=-1)
        if(rbt[index]>0)
            rbt[index]--;
            jtime++;
        //if process is completed
        if(rbt[index]==0)
            ct[index]=jtime;
            sts[index]=1;
            count--;
        }
    }
```

```
else //else if index not found
        jtime++;
    }
}
int main()
{
    //finding the process having least arrival time
    for(int i=0;i<4;i++)</pre>
        if(a[i]<jtime)</pre>
            jtime=a[i];
        }
    }
    //calculating the completion time
    while(count!=0)
    {
        process_Ps();
    }
    //Printing the results
   printf("Process Arrival time Burst time
                                                            completion time
\n");
    for(int i=0;i<4;i++)</pre>
        printf(" %d
                                  %d
                                                     %d
%d\n",pid[i],a[i],b[i],ct[i]);
    }
}
```