```
#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]=\{1,2,3,1\};
int b[4]={5,4,1,2};
int pt[4]=\{1,3,4,2\};
int sts[4]=\{0,0,0,0,0\};
int ct[4]=\{0,0,0,0,0\};
int count=4;
int jtime=100; //just initialized to high
void process_Ps()
{
    int index;
    int p=100;
    for(int i=0;i<4;i++)
        if(a[i]<=jtime&&sts[i]!=1)</pre>
        {
             if(p>pt[i])
                 p=pt[i];
                 index=i;
             }
        }
    }
    //got the index
    jtime=jtime+b[index];
    ct[index]=jtime;
    sts[index]=1;
    count--;
}
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]);
   }
}
```