

OnlineGDB beta
online compiler and debugger for c/c++

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main.c


```
9  #include<stdio.h>
10 void main()
11 {
12     int n,r,i,j,k,p,u=0,s=0,m;
13     int block[10],run[10],active[10],newreq[10];
14     int max[10][10],resalloc[10][10],resreq[10][10];
15     int totalloc[10],totext[10],simalloc[10];
16     //clrscr();
17     printf("Enter the no of processes:");
18     scanf("%d",&n);
19     printf("Enter the no of resource classes:");
20     scanf("%d",&r);
21     printf("Enter the total existed resource in each class:");
22     for(k=1; k<=r; k++)
23         scanf("%d",&totext[k]);
24     printf("Enter the allocated resources:");
25     for(i=1; i<=n; i++)
26         for(k=1; k<=r; k++)
27             scanf("%d",&resalloc);
28     printf("Enter the process making the new request:");
29     scanf("%d",&p);
30     printf("Enter the requested resource:");
31     for(k=1; k<=r; k++)
32         scanf("%d",&newreq[k]);
33     printf("Enter the process which are n blocked or running:");
34     for(i=1; i<=n; i++)
35     {
36         if(i!=p)
37         {
38             printf("process %d:\n",i+1);
39             scanf("%d%d",&block[i],&run[i]);
40         }
41     }
42     block[p]=0;
43     run[p]=0;
```

input

```
43 run[p]=0;
44 for(k=1; k<=r; k++)
45 {
46     j=0;
47     for(i=1; i<=n; i++)
48     {
49         totalloc[k]=j+resalloc[i][k];
50         j=totalloc[k];
51     }
52 }
53 for(i=1; i<=n; i++)
54 {
55     if(block[i]==1 || run[i]==1)
56         active[i]=1;
57     else
58         active[i]=0;
59 }
60 for(k=1; k<=r; k++)
61 {
62     resalloc[p][k]+=newreq[k];
63     totalloc[k]+=newreq[k];
64 }
65 for(k=1; k<=r; k++)
66 {
67     if(totext[k]-totalloc[k]<0)
68     {
69         u=1;
70         break;
71     }
72 }
73 if(u==0)
74 {
75     for(k=1; k<=r; k++)
76         simalloc[k]=totalloc[k];
77 }
```

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```
81         if(active[i]==1)
82         {
83             j=0;
84             for(k=1; k<=r; k++)
85             {
86                 if((totext[k]-simalloc[k])<(max[i][k]-resalloc[i][k]))
87                 {
88                     j=1;
89                     break;
90                 }
91             }
92         }
93         if(j==0)
94         {
95             active[i]=0;
96             for(k=1; k<=r; k++)
97                 simalloc[k]=resalloc[i][k];
98         }
99     }
100     m=0;
101     for(k=1; k<=r; k++)
102         resreq[p][k]=newreq[k];
103     printf("Deadlock willn't occur");
104 }
105 else
106 {
107     for(k=1; k<=r; k++)
108     {
109         resalloc[p][k]=newreq[k];
110         totalloc[k]=newreq[k];
111     }
112     printf("Deadlock will occur");
113 }
114 }
115 }
```

input

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main.c

```
81         if(active[i]==1)
82         {
83             j=0;
84             for(k=1; k<=r; k++)
85             {
```

input

```
int *
Enter the no of processes:4
Enter the no of resource classes:2
Enter the total existed resource in each class:3 6
Enter the allocated resources:1003005
4
7
98
6
8
3
2
Enter the process making the new request:5 7
Enter the requested resource:3 2
Enter the process which are n blocked or running:process 2:
5
process 3:
5
7
process 4:
3
4
process 5:
6
9
Deadlock will occur

...Program finished with exit code 0
Press ENTER to exit console.
```

Language C 