

dit View Search Project Build Debug Fortran wxSmith To



m 6.c x

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  int mutex = 1;
4  int full = 0;
5  int empty = 10, x = 0;
6  void producer()
7  {
8      --mutex;
9      ++full;
10     --empty;
11     x++;
12     printf("\nProducer produces "item %d", x);
13     ++mutex;
14 }
15 void consumer()
16 {
17     --mutex;
18     --full;
19     ++empty;
20     printf("\nConsumer consumes "item %d", x);
21     x--;
22     ++mutex;
23 }
24 int main()
25 {
26     int n, i;
27     printf("\n1. Press 1 for Producer""\n2. Press 2 for Consumer""\n3. Press 3 for Exit");
```

"C:\Users\siva8\OneDrive\Documents\program 6...

```
1. Press 1 for Producer
2. Press 2 for Consumer
3. Press 3 for Exit
```

Enter your choice:2

Buffer is empty!

Enter your choice:1

Producer produces item 1

Enter your choice:2

Consumer consumes item 1

Enter your choice:1

Producer produces item 1

Enter your choice:1

Producer produces item 2

Enter your choice:3

Process returned 0 (0x0) execution time : 36.342 s

Press any key to continue.



```

1  #include<stdio.h>
2  int main()
3  {
4  int q[20],p[50],c=0,c1,d,f,i,j,k=0,n,r,t,b[20],c2[20];
5  printf("Enter no of pages:");
6  scanf("%d",&n);
7  printf("Enter the reference string:");
8  for(i=0;i<n;i++)
9  scanf("%d",&p[i]);
10 printf("Enter no of frames:");
11 scanf("%d",&f);
12 q[k]=p[k];
13 printf("\n\t%d\n",q[k]);
14 c++;
15 k++;
16 for(i=1;i<n;i++)
17 {
18 c1=0;
19 for(j=0;j<f;j++)
20 {
21 if(p[i]!=q[j])
22 c1++;
23 }
24 if(c1==f)
25 {
26 c++;
27 if(k<f)
28 {
29 q[k]=p[i];
30 k++;
31 for(j=0;j<k;j++)

```

```

"C:\Users\siva8\OneDrive\Documents\OS\Pr...
Enter no of pages:13
Enter the reference string:7
6
5
6
5
3
4
4
3
0
1
2
1
Enter no of frames:3

7
7      6
7      6      5
3      6      5
3      4      5
3      4      0
3      1      0
2      1      0

The no of page faults is 8
Process returned 0 (0x0)   execution time : 42.652 s
Press any key to continue.

```

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main() : int

am 6.c X Program 7.c X Program 8.c X Program 9.c X

```
1  #include<stdio.h>
2  int main()
3  {
4  int no_of_frames, no_of_pages, frames[10], pa
5  max, faults = 0;
6  printf("Enter number of frames: ");
7  scanf("%d", &no_of_frames);
8  printf("Enter number of pages: ");
9  scanf("%d", &no_of_pages);
10 printf("Enter page reference string: ");
11 for(i = 0; i < no_of_pages; ++i)
12 {
13 scanf("%d", &pages[i]);
14 }
15 for(i = 0; i < no_of_frames; ++i)
16 {
17 frames[i] = -1;
18 }
19 for(i = 0; i < no_of_pages; ++i)
20 {
21 flag1 = flag2 = 0;
22 for(j = 0; j < no_of_frames; ++j)
23 {
24 if(frames[j] == pages[i])
25 {
26 flag1 = flag2 = 1;
27 break;
28 }
29 }
30 if(flag1 == 0)
31 {
32 for(k = 0; k < no_of_frames; ++k)
```

"C:\Users\siva8\OneDrive\Documents\OS\Progra...

```
Enter number of frames: 3
Enter number of pages: 14
Enter page reference string: 1
```

```
2
1
1
0
2
3
6
7
4
3
3
6
7
1      -1      -1
1      2      -1
1      2      -1
1      2      -1
1      2      0
1      2      0
3      2      0
3      6      0
3      6      7
3      6      4
3      6      4
3      6      4
3      6      4
7      6      4
```

```
Total Page Faults = 8
Process returned 0 (0x0)   execution time : 23.056 s
Press any key to continue.
```



```
Program 10.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks
<global> search(FILE* fp, int usn_key) : int
program 6.c x Program 7.c x Program 8.c x Program 9.c x Program 10.c x
1 #include <stdio.h>
2 typedef struct
3 {
4     int usn;
5     char name[25];
6     int m1,m2,m3;
7 }
8 STD;
9 STD s;
10 void display(FILE *);
11 int search(FILE *,int);
12 void main()
13 {
14     int i,n,usn_key,opn;
15     FILE *fp;
16     printf(" How many Records ? ");
17     scanf("%d",&n);
18     fp=fopen("stud.dat","w");
19     for (i=0;i<n;i++)
20     {
21         printf("Read the Info for Student: %d (usn,name,m1,m2,m3) \n",i+1);
22         scanf("%d%s%d%d%d",&s.usn,&s.name,&s.m1,&s.m2,&s.m3);
23         fwrite(&s,sizeof(s),1,fp);
24     }
25     fclose(fp);
26     fp=fopen("stud.dat","r");
27     do
28     {
29         printf("Press 1- Display\t 2- Search\t 3- Exit\t Your Option?");
30         scanf("%d",&opn);
31         switch(opn)
32         {
```

```
"C:\Users\siva8\OneDrive\Documents\OS\Program 10.exe"
How many Records ? 5
Read the Info for Student: 1 (usn,name,m1,m2,m3)
1
Shiva
100
98
99
Read the Info for Student: 2 (usn,name,m1,m2,m3)
2
Srinu
100
98
99
Read the Info for Student: 3 (usn,name,m1,m2,m3)
3
Malli
89
90
91
Read the Info for Student: 4 (usn,name,m1,m2,m3)
4
Abhi
97
93
95
Read the Info for Student: 5 (usn,name,m1,m2,m3)
5
Raghu
97
96
95
Press 1- Display      2- Search      3- Exit      Your Option?1
Student Records in the File
1      Shiva      100      98      90
2      Srinu      100      98      99
3      Malli      89      90      91
4      Abhi      97      93      95
5      Raghu      97      96      95
```