

```

1  #include<stdio.h>
2  int main()
3  {
4      int no_of_frames, no_of_pages, frames[10], pages[30], temp[10], flag1, flag2, flag3, i, j, k, pos, max, faults = 0;
5      printf("Enter number of frames: "); scanf("%d", &no_of_frames);
6      printf("Enter number of pages: "); scanf("%d", &no_of_pages);
7      printf("Enter page reference string: ");
8      for(i = 0; i < no_of_pages; ++i)
9      {
10         scanf("%d", &pages[i]);
11     }
12     for(i = 0; i < no_of_frames; ++i){ frames[i] = -1; }
13     for(i = 0; i < no_of_pages; ++i){ flag1 = flag2 = 0; for(j = 0; j < no_of_frames; ++j){ if(frames[j] == pages[i]){ flag1 = flag2 = 1; }
14     break; }
15     }
16     if(flag1 == 0){
17     for(j = 0; j < no_of_frames; ++j)
18     {
19     if(frames[j] == -1){ faults++;
20     frames[j] = pages[i]; flag2 = 1;
21     break; }
22     }
23     }
24     if(flag2 == 0){ flag3 = 0;
25     for(j = 0; j < no_of_frames; ++j){ temp[j] = -1; for(k = i + 1; k < no_of_pages; ++k){ if(frames[j] == pages[k]){ temp[j] = k; break; }
26     }
27     }
28     for(j = 0; j < no_of_frames; ++j){ if(temp[j] == -1){ pos = j; flag3 = 1; break; }
29     }
30     }
31     if(flag3 == 0){ max = temp[0];
32     pos = 0;
33     for(j = 1; j < no_of_frames; ++j){ if(temp[j] > max)
34     { max = temp[j]; pos = j; }
35     }
36     }
37     }
38     }
39     }
40     }

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15 break;
16 }
17 }
18 if(flag1 == 0){
19 for(j = 0; j < no_of_frames; ++j)
20 {
21 if(frames[j] == -1){faults++;
22 frames[j] = pages[i];flag2 = 1;
23 break;
24 }
25 }
26 }
27 if(flag2 == 0){ flag3 = 0;
28 for(j = 0; j < no_of_frames; ++j){ temp[j] = -1; for(k = i + 1; k < no_of_pages; ++k){ if(frames[j] == pages[k]){ temp[j] = k; break;
29 }
30 }
31 }
32 for(j = 0; j < no_of_frames; ++j){ if(temp[j] == -1){ pos = j; flag3 = 1; break;
33 }
34 } if(flag3 == 0){ max = temp[0];
35 pos = 0;
36 for(j = 1; j < no_of_frames; ++j){ if(temp[j] > max)
37 { max = temp[j]; pos = j;
38 }
39 }
40 }
41 frames[pos] = pages[i];faults++; } printf("\n");
42 for(j = 0; j < no_of_frames; ++j){
43 printf("%d\t", frames[j]);
44 }
45 }
46 printf("\n\nTotal Page Faults = %d", faults);
47 }
48 }
49

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 Compiler
  Resources
  Compile Log
  Debug
  Find Results

Line: 2 Col: 4 Sel: 0 Lines: 49 Length: 1296 Insert Done parsing in 0 seconds

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```

C:\Users\sruthi\OneDrive\Documents\Untitled1.exe
Enter number of frames: 5
Enter number of pages: 10
Enter page reference string: 2 3 5 7 8 6 1 9 4 6

2  -1  -1  -1  -1
2  3   -1  -1  -1
2  3   5   -1  -1
2  3   5   7   -1
2  3   5   7   8
6  3   5   7   8
6  1   5   7   8
6  9   5   7   8
6  4   5   7   8
6  4   5   7   8

Total Page Faults = 9
-----
Process exited after 53.46 seconds with return value 0
Press any key to continue . . .

41 frames[pos] = pages[i]; faults++; } printf("\n");
42 for(j = 0; j < no_of_frames; ++j){
43 printf("%d\t", frames[j]);
44 }
```

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)}{ flag1 = flag2 = 1;
```

```
)}{ temp[j] = k; break;
```