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Div:SEA Roll No:42

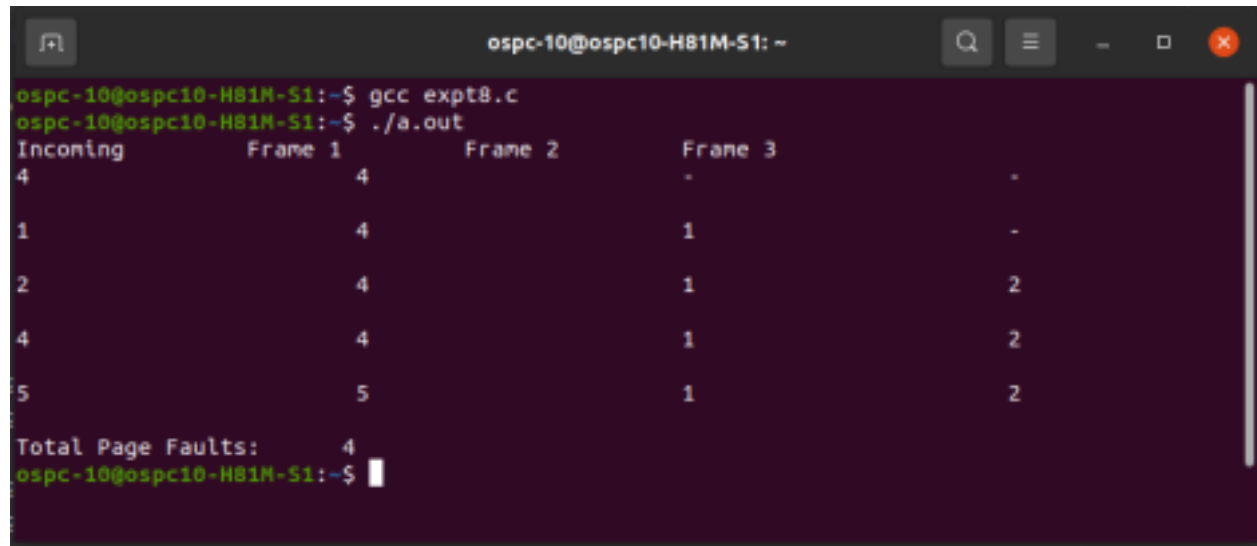
Experiment No. 9

Code:

```
#include <stdio.h>
int main()
{
    int incomingStream[] = {4, 1, 2, 4, 5};
    int pageFaults = 0;
    int frames = 3;
    int m, n, s, pages;
    pages = sizeof(incomingStream)/sizeof(incomingStream[0]);
    printf("Incoming \t Frame 1 \t Frame 2 \t Frame 3"); int
    temp[frames];
    for(m = 0; m < frames; m++) {
        temp[m] = -1;
    }
    for(m = 0; m < pages; m++){
        s = 0;
        for(n = 0; n < frames; n++)
        {
            if(incomingStream[m] == temp[n])
            {
                s++;
                pageFaults--;
            }
        }
        pageFaults++;
        if((pageFaults <= frames) && (s == 0))
        {
            temp[m] = incomingStream[m];
        }
        else if(s == 0)
        {
            temp[(pageFaults - 1) % frames] = incomingStream[m];
        }
        printf("\n");
        printf("%d\t\t\t",incomingStream[m]);
        for(n = 0; n < frames; n++)
        {
            if(temp[n] != -1)
                printf(" %d\t\t\t", temp[n]);
            else
                printf(" - \t\t\t");
        }
    }
}
```

```
    printf("\nTotal Page Faults:\t%d\n", pageFaults);  
    return 0;  
}
```

Output:



```
ospc-10@ospc10-H81M-S1: ~  
ospc-10@ospc10-H81M-S1:~$ gcc expt8.c  
ospc-10@ospc10-H81M-S1:~$ ./a.out  
Incoming      Frame 1      Frame 2      Frame 3  
4              4              -              -  
1              4              1              -  
2              4              1              2  
4              4              1              2  
5              5              1              2  
Total Page Faults:      4  
ospc-10@ospc10-H81M-S1:~$
```