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#include<stdio.h>
void fifo();
void Iru();
void main()
    int choice;
    printf("SELECT YOUR CHOICE\n");
    printf("\t1.FIFO\n\t2.LRU\n\t3.EXIT\n");
    do
    {
         printf("Enter your choice");
         scanf("%d",&choice);
         switch(choice)
              case 1:fifo();
                       break;
              case 2:Iru();
                       break;
              case 3:printf("Exit from menu");
                       break;
              default:printf("Invalid");
    }while(choice!=3);
void fifo()
    int i, j, k, f, pf=0, count=0, rs[50], m[50], n;
    printf("\n Enter the length of reference string -- ");
    scanf("%d",&n);
    printf("\n Enter the reference string -- ");
    for(i=0;i<n;i++)
         scanf("%d",&rs[i]);
    printf("\n Enter no. of frames -- ");
    scanf("%d",&f);
    for(i=0;i< f;i++)
         m[i]=-1;
    printf("\n The Page Replacement Process is -- \n");
    for(i=0;i<n;i++)
    {
         for(k=0;k< f;k++)
              if(m[k]==rs[i])
              break;
         if(k==f)
              m[count++]=rs[i];
              pf++;
         for(j=0;j< f;j++)
              printf("\t%d",m[j]);
         if(k==f)
              printf("\tPF No. %d",pf);
         printf("\n");
         if(count==f)
              count=0;
    }
```

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printf("\n The number of Page Faults using FIFO are %d",pf);
}
void Iru()
          int i,j,k,min,rs[25],m[10],count[10],flag[25],n,f,pf=0,next=0;
          printf("Enter the length of the reference string --");
          scanf("%d",&n);
          printf("Enter the reference string -- ");
         for(i=0;i<n;i++)
         {
              scanf("%d",&rs[i]);
              flag[i]=0;
         printf("Enter the number of frames -- ");
          scanf("%d",&f);
          for(i=0;i<f;i++)
         {
              count[i]=0;
              m[i]=-1;
     printf("\nThe Page Replacement process is -- \n");
     for(i=0;i<n;i++)
              for(j=0;j< f;j++)
                   if(m[j]==rs[i])
                             flag[i]=1;
                             count[j]=next;
                             next++;
              if(flag[i]==0)
                   if(i<f)
                   {
                             m[i]=rs[i];
                             count[i]=next;
                             next++;
                   }
                   else
                   {
                             min=0;
                             for(j=0;j< f;j++)
                                  if(count[min] > count[j])
                                       min=j;
                             m[min]=rs[i];
                             count[min]=next;
                             next++;
                   pf++;
              for(j=0;j< f;j++)
                   printf("%d\t",m[j]);
              if(flag[i]==0)
                   printf("PF no. -- %d",pf);
              printf("\n");
```

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}    printf("\nThe number of page faults using LRU are %d",pf); }
```