```
#include <stdio.h>
int main()
{
  int n, frame;
  printf("Enter the no. of process : ");
  scanf("%d", &n);
  int s[n];
  printf("Enter the processes: ");
  for(int i = 0; i < n; i++)
  {
    scanf("%d", &s[i]);
  }
  printf("Enter the frame : ");
  scanf("%d", &frame);
  int ram[frame];
  for(int i = 0; i < frame; i++)
  {
    ram[i] = -1;
  int fault = 0;
  int hit = 0;
  int isfull = 0; // keeps track of how many pages are filled
  int MRU = 0; // keeps track of the index of the MRU page
  for(int i = 0; i < n; i++)
  {
```

int temp = 0;

```
for(int j = 0; j < isfull; j++) // check all the pages that are filled
  {
    if(ram[j] == s[i]) // page hit
    {
      hit++;
      MRU = j;
      temp = 1;
      break;
    }
  }
  if(isfull < frame) // all pages are not filled
  {
    if(temp == 0) // page fault
    {
      fault++;
      MRU = isfull;
      ram[isfull] = s[i];
      isfull++;
    }
  }
  else // all pages are full
  {
    if(temp == 0) // page fault
    {
      ram[MRU] = s[i];
      fault++;
    }
  }
}
printf("\nTotal Page faults : %d", fault);
```

```
printf("\nTotal Page hits : %d", hit);
return 0;
}
```