```
import java.io.*;
public class FIFO {
public static void main(String[] args) throws IOException
BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
int frames, pointer = 0, hit = 0, fault = 0,ref_len;
int buffer[];
int reference[];
int mem_layout∏;
System.out.println("Please enter the number of Frames: ");
frames = Integer.parseInt(br.readLine());
System.out.println("Please enter the length of the Reference string: ");
ref_len = Integer.parseInt(br.readLine());
reference = new int[ref_len];
mem_layout = new int[ref_len][frames];
buffer = new int[frames];
for(int j = 0; j < frames; j++)
buffer[i] = -1;
System.out.println("Please enter the reference string: ");
for(int i = 0; i < ref_len; i++)
reference[i] = Integer.parseInt(br.readLine());
System.out.println();
for(int i = 0; i < ref_len; i++)
int search = -1;
for(int j = 0; j < frames; j++)
if(buffer[i] == reference[i])
search = j;
hit++;
break;
if(search == -1)
buffer[pointer] = reference[i];
fault++;
pointer++;
if(pointer == frames)
pointer = 0;
for(int j = 0; j < frames; j++)
mem_layout[i][j] = buffer[j];
for(int i = 0; i < frames; i++)
for(int j = 0; j < ref_len; j++)
System.out.printf("%3d ",mem_layout[i][i]);
System.out.println();
System.out.println("The number of Hits: " + hit);
System.out.println("Hit Ratio: " + (float)((float)hit/ref_len));
System.out.println("The number of Faults: " + fault);
```

