

```
import java.util.*;

public class FIFO {

    public static void main(String args[]) {

        int ref[], frame[];

        int n, m, j = 0, hit = 0, miss = 0;

        Scanner it = new Scanner(System.in);

        System.out.println("Enter the string size : ");
        n = it.nextInt();

        System.out.println("Enter the frame size : ");
        m = it.nextInt();

        ref = new int[n];
        frame = new int[m];

        for (int i = 0; i < m; i++) {
            frame[i] = -1;
        }

        System.out.println("Enter the reference string : ");
        for (int i = 0; i < n; i++) {
            ref[i] = it.nextInt();
        }

        System.out.print("\nReference string : ");
        for (int i = 0; i < n; i++) {
```

```
    System.out.print(ref[i] + " ");  
}
```

```
System.out.println("\n\n-----FIFO-----\n");
```

```
int u = n;
```

```
int flag = 0;
```

```
int i = 0;
```

```
while (u != 0) {
```

```
    System.out.print "[" + ref[j] + " | " );
```

```
    for (int b = 0; b < m; b++) {
```

```
        if (j < n && ref[j] == frame[b]) {
```

```
            flag = 1;
```

```
            hit++;
```

```
        }
```

```
    }
```

```
    if (j < n && flag == 0) {
```

```
        frame[i] = ref[j];
```

```
        miss++;
```

```
        j++;
```

```
        i++;
```

```
    for (int k = 0; k < m; k++) {
```

```
        System.out.print(frame[k] + " | " );
```

```
    }
```

```
    System.out.print(" <--Miss\n");
```

```

    }

    if (flag == 1) {
        flag = 0;
        for (int k = 0; k < m; k++) {
            System.out.print(frame[k] + " | ");
        }
        j++;
        System.out.print(" <--Hit\n");

    }

    if (i == m) {
        i = 0;
    }

    u--;
}

System.out.println("\nTotal Hits : " + hit);
System.out.println("Total Miss : " + miss);

System.out.print("\n-----");
}
}

```