

Page Replacement – FIFO-11

```
import java.util.*;

public class FIFO_PageReplacement {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter number of frames: ");
        int frames = sc.nextInt();

        System.out.print("Enter number of pages: ");
        int n = sc.nextInt();

        int[] pages = new int[n];
        System.out.println("Enter page reference string:");
        for (int i = 0; i < n; i++) pages[i] = sc.nextInt();

        int[] frame = new int[frames];
        Arrays.fill(frame, -1);

        int pointer = 0, pageFaults = 0;

        for (int page : pages) {
            boolean found = false;

            for (int f : frame)
                if (f == page) { found = true; break; }

            if (!found) {
                frame[pointer] = page;
                pointer = (pointer + 1) % frames;
            }
        }
    }
}
```

```
    pageFaults++;
```

```
}
```

```
System.out.print("Frames: ");
```

```
for (int f : frame) System.out.print((f == -1 ? "- " : f) + " ");
```

```
System.out.println();
```

```
}
```

```
System.out.println("\nTotal Page Faults = " + pageFaults);
```

```
}
```

```
}
```