**FIFO:**

import java.io.\*;

class FIFO {

public static void main(String args[]) throws IOException {

int n; // Number of inputs

int f; // Number of frames

float rat; // Hit ratio

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

System.out.println("Enter the number of FRAMES:");

f = Integer.parseInt(br.readLine()); // Number of frames input

int fifo[] = new int[f]; // Array for holding frames

System.out.println("Enter the number of INPUTS:");

n = Integer.parseInt(br.readLine()); // Number of inputs

int inp[] = new int[n]; // Array for holding inputs

System.out.println("Enter INPUTS:");

for (int i = 0; i < n; i++) {

inp[i] = Integer.parseInt(br.readLine()); // Reading input values

}

System.out.println("----------------------");

// Initialize all frames to -1 (indicating empty)

for (int i = 0; i < f; i++) {

fifo[i] = -1;

}

int Hit = 0; // Counter for hit

int Fault = 0; // Counter for fault

int j = 0; // Index for FIFO replacement

boolean check; // Flag for checking if input is a hit or fault

// Process each input

for (int i = 0; i < n; i++) {

check = false;

// Check if the page is already in one of the frames (HIT)

for (int k = 0; k < f; k++) {

if (fifo[k] == inp[i]) {

check = true;

Hit++;

break; // If hit, break out of the loop

}

}

// If it's a fault, replace the oldest page in FIFO manner

if (!check) {

fifo[j] = inp[i];

j = (j + 1) % f; // Circularly increment the pointer j

Fault++;

}

}

// Calculate and display the hit ratio

rat = (float) Hit / (float) n;

System.out.println("HIT: " + Hit + " FAULT: " + Fault + " HIT RATIO: " + rat);

}

}