CS 345 Lab3 Test cases

Test case 1: Pass 0 is sufficient (1 Point)

Input:

```
./a.out  input1.txt 100 2 25
```

Output: <Blank screen Without segmentation fault>

```

```

Test case 2: Filling up initial Input buffers (1 Point)

Input:

```
./a.out  input2.txt 16 3 4
```

Output:

```
Read page fault for R0_0 Page[0]
Read page fault for R0_0 Page[1]
Read page fault for R0_0 Page[2]
Read page fault for R0_0 Page[3]
Read page fault for R0_1 Page[0]
Read page fault for R0_1 Page[1]
Read page fault for R0_1 Page[2]
Read page fault for R0_1 Page[3]
Read page fault for R0_2 Page[0]
Read page fault for R0_2 Page[1]
Read page fault for R0_2 Page[2]
Read page fault for R0_2 Page[3]
…
```

Only first 12 lines of output would be evaluated for this test case. Rest of the lines would be ignored.

Test case 3: Writing temporary output (1 Point)

Input:

```
./a.out  input2.txt 16 3 4
```

Output:

It will be evaluated whether there are 48 Write page faults printed in the output or not.

Test case 4: Frequency of “Read page fault for R0_0 Page[0] ” (1 Point)

Input:

```
./a.out  input2.txt 16 3 4
```

Output:

It will be evaluated whether “Read page fault for R0_0 Page[0]” occurs four times in the output or not.

Test case 5: Number of passes (1 Point)

Input:

```
./a.out  input3.txt 6 2 1
```

Output:

There should be 4000 lines in the output.

Pass Index	Sorted runs produced	Output lines generated
0	ceil(1000/6)= 167	0
1	ceil(167/5)= 34	1000
2	ceil(34/5)= 7	1000
3	ceil(7/5)= 2	1000
4	ceil(2/5)=1	1000