P254. #4

first fit:

Request	Hole Taken	Hole Left
12 MB	20 MB	10, 4, 8, 18, 7, 9, 12, 15
10 MB	10 MB	4,8,18,7,9,12,15
9 MB	B MB	4, 8, 9, 7, 9, 12, 15

Best fir:

Request	Hole Taken	Hole Left
12 MB	12MB	10, 4, 20, 18, 7, 9, 15
10 MB	10 MB	4,20,18.7.9.15
9 MB	9 MB	4. 20, 18, 7, 15

Worset fit:

Request	Hole Taken	Hole Left
12 MB	20 MB	10, 4. 8, 18, 7, 9, 12, 15
10 MB	18 MB	10, 4, 8, 8, 7, 9, 12, 15
9 MB	6 MB	10,4,8,8,7,9,12,6

next fit:

Request	Hole Taken	Hole Left
12 MB	20 MB	10, 4,8, 18, 7,9, 12, 15
10 MB	18 MB	10.4,8,8,1,9,12,15
9 MB	9 MB	(0, 4, 8, 8, 7, 12,15

Page 254. #7

vitual address	offset	Frame	physicat address
20	20	2	8212
4100	4	(4100
8300	(08	6	2468 4

Page 257, #28

28. If FIFO page replacement is used with four page frames and eight pages, how many page faults will occur with the reference string 0172327103 if the four frames are initially empty? Now repeat this problem for LRU.

FIFO :

Frame page

0 0 3

1 0

2 7

3 2

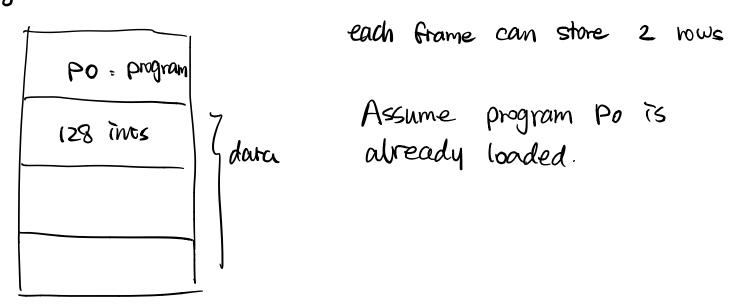
$$4 + 2 = 6 \text{ page } faults$$

LRU:

Frame	Page	Count.
0	0 \$ \$	à 4.8
1	Į	* 7
2	7	2 6
3	2 3	3 5 9

$$4 + 3 = \frac{7 \text{ page faults}}{}$$

Page 258. Q38.



Fragment A:

since it operates columnwise

there will be a pagefault overy 2 i

Assume pagefault at 0th row, so the data can
be loaded into a frame, and no pagefault after the

last now

pagefault =
$$(64 = 2) * 64$$

= 2048

Fragment B:

it finishes the operation of a now before going to the next now

page fault = 64 = 32.

:. Fragment B has less pagefault.