

Q6] Consider a system with 120MB of available memory and a list of 10 processes with the following memory requirements. Using a variable-sized partitioning approach, allocate memory to these processes using the First Fit, Best Fit, and Worst Fit algorithms and compare the results. Fill in the blanks with information of the original block number where each process has been assigned to. Write down 'N/A' if you are unable to allocate any location. Finally mention the most suitable algorithm in this scenario. [15 Marks]

Worst

8MB ← 13MB
0MB ← 10MB → 15MB
5MB ← 15MB → 40MB
7MB

	Memory
1	23 MB
2	30 MB
3	45 MB
4	22 MB

First

18MB → 3MB
5MB → 0MB
35MB → 20MB → 10MB → 5MB
12MB

Best

13MB → 3MB
5MB → 0MB
30MB → 25MB
17MB → 2MB
5MB

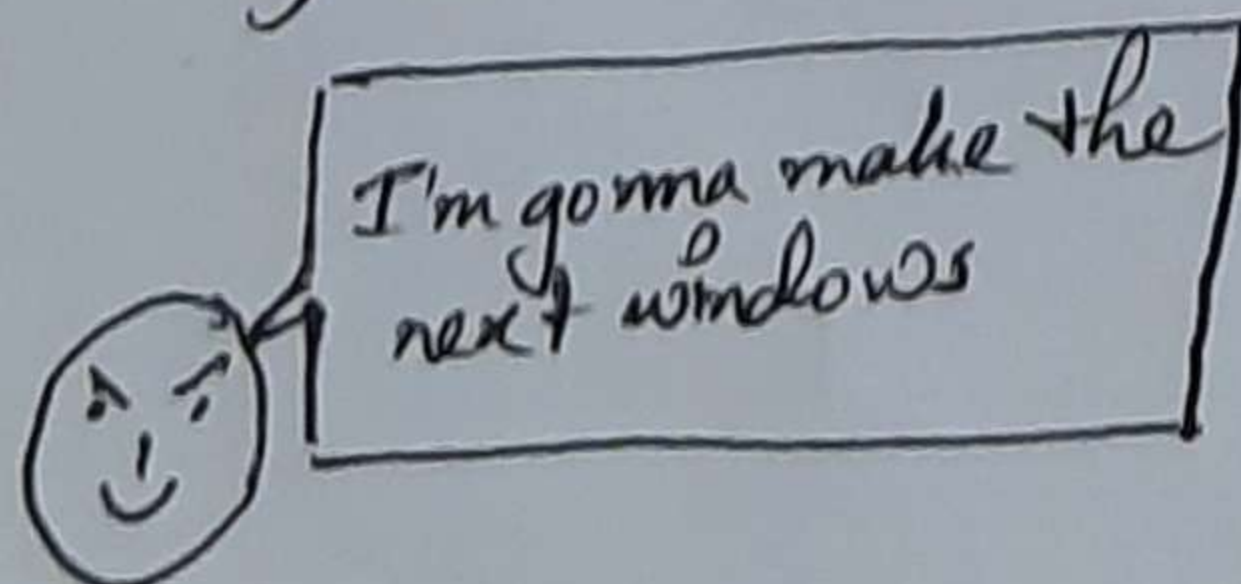
Processes	Size	First fit	Best fit	Worst fit
P1	5 MB	1 ✓	4 ✓	3 ✓
P2	25 MB	2 ✓	2 ✓	3 ✓
P3	15 MB	1 ✓	4 ✓	2 ✓
P4	10 MB	3 ✓	1 ✓	1 ✓
P5	15 MB	3 ✓	3 ✓	4 ✓
P6	5 MB	2 ✓	2 ✓	2 ✓
P7	10 MB	3 ✓	1 ✓	3 ✓
P8	5 MB	3 ✓	3 ✓	1 ✓
P9	10 MB	4 ✓	3 ✓	2 ✓
P10	20 MB	N/A ✓	N/A ✓	N/A ✓

Since all algorithm fails to allocate the last process, Best fit is the suitable one for having the least number of segments. no algorithm is most suitable. But Best and worst better than first for having lower no. of segm

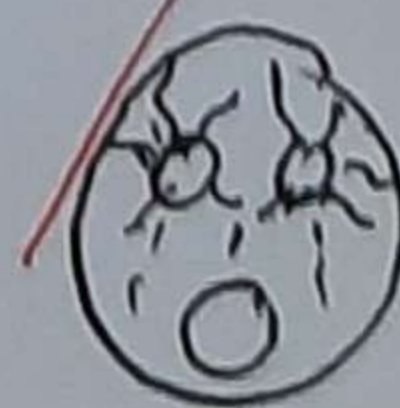
Bonus Task: Make a unique meme using your own creativity relevant to CSE321 course.

[2.5 Marks]

Start of the semester



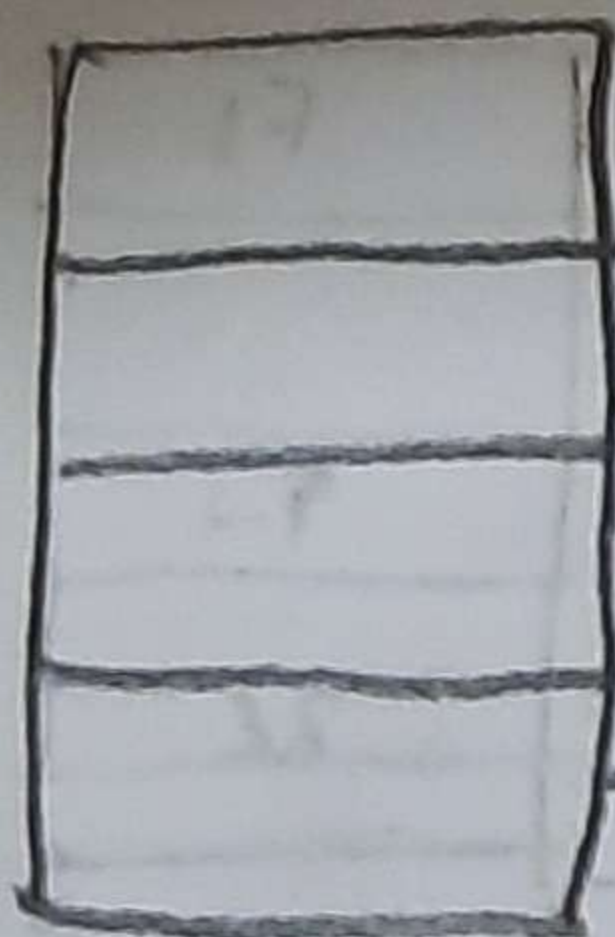
After learning C somewhat



[CO6] Consider a system with 120MB of available memory and a list of 10 processes with the following memory requirements. Using a variable-sized partitioning approach, allocate memory to these processes using the First Fit, Best Fit, and Worst Fit algorithms and compare the results. Fill in the blanks with information of the **original block number** where each process has been assigned to. Write down 'N/A' if you are unable to allocate any location. Finally mention the most suitable algorithm in this scenario. [15 Marks]

	Memory
1	17 MB
2	27 MB
3	38 MB
4	38 MB

Processes	Size	First fit	Best fit	Worst fit
P1	20 MB	2 ✓	2 ✓	3 ✓
P2	15 MB	1 ✓	1 ✓	4 ✓
P3	5 MB	2 ✓	2 ✓	2 ✓
P4	10 MB	3 ✓	3 ✓	4 ✓
P5	25 MB	3 ✓	3 ✓	N/A ✓
P6	10 MB	4 ✓	4 ✓	2 ✓
P7	10 MB	4 ✓	4 ✓	3 ✓
P8	15 MB	4 ✓	4 ✓	1 ✓
P9	5 MB	N/A ✓	N/A ✓	4 ✓
P10	5 MB	N/A ✓	N/A ✓	2 ✓



→ 17 → 2

→ 27 → 22 → 12 → 7

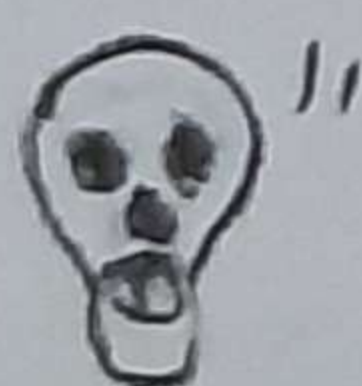
→ 38 → 18 → 8

→ 38 → 23 → 13 → 8

∴ Worst Fit algorithm is the most suitable algorithm in this scenario.

Task: Make a unique meme using your own creativity relevant to CSE321 course. [2.5 Marks]

When you try to solve a Lab Problem
Brain:

"I Forgot" 

[CO6] Consider a system with 120MB of available memory and a list of 10 processes with the following memory requirements. Using a variable-sized partitioning approach, allocate memory to these processes using the First Fit, Best Fit, and Worst Fit algorithms and compare the results. **Fill in the blanks** with information of the **original block number** where each process has been assigned to. Write down 'N/A' if you are unable to allocate any location. Finally mention the most suitable algorithm in this scenario. **[15 Marks]**

	Memory
1	10 MB
2	20 MB
3	37 MB
4	53 MB

Processes	Size	First fit	Best fit	Worst fit
P1	10 MB	1 ✓	1 ✓	4 ✓
P2	5 MB	2 ✓	2 ✓	4 ✓
P3	10 MB	2 ✓	2 ✓	3 ✓
P4	15 MB	3 ✓	3 ✓	4 ✓
P5	5 MB	2 ✓	2 ✓	3 ✓
P6	25 MB	4 ✓	4 ✓	N/A ✓
P7	15 MB	3 ✓	3 ✓	4 ✓
P8	20 MB	4 ✓	4 ✓	3 ✓
P9	10 MB	N/A ✓	N/A ✓	2 ✓
P10	5 MB	3 ✓	3 ✓	1 ✓

first fit and best fit is the most suitable algorithm this scenario.

Bonus Task: Make a unique meme using your own creativity relevant to CSE321 course.

[2.5 Marks]

