	Max						Allocation						Need					Available					
	Α	В	С	D	Ε		Α	В	С	D	Ε		Α	В	С	D	Ε		Α	В	С	D	Ε
P1	10	9	8	7	6		5	6	3	2	1		5	3	5	5	5		3	3	3	3	3
P2	8	6	4	5	2		7	2	4	3	1		1	4	0	2	1						
Р3	4	1	1	1	1		0	1	1	1	0		4	0	0	0	1						
P4	4	3	4	5	6		2	3	2	1	0		2	0	2	4	6						
P5	4	5	6	4	4		1	0	2	3	0		3	5	4	1	4						
Р6	3	5	2	3	1		0	1	2	2	0		3	4	0	1	0						
P7	1	2	2	2	1		1	1	1	0	1		0	1	1	2	0						

Figure 1. Table from discussion 4.

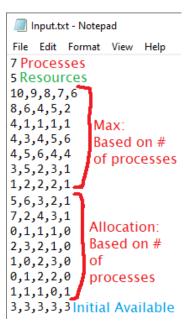


Figure 2. Showing what each line of the input file means. There can be no spaces in between lines. First line is processes, second line is resources. The next lines are parsed based on # of processes. If processes = 7, then the 7 lines after line 2 will go to the max array, and the 7 lines after max will go to allocated. The last line is always the initial availability.

```
Invalid file, please try again.
Please type the name of the file to parse:
File is in a format that is not parseable, please choose a valid file.
                                                                       ound safe sequence: P7 > P2 > P1 > P6 > P4 > P5 > P3
                                                                       ound safe sequence: P7 > P2 > P1 > P6 > P5 > P3 > P4
Please type the name of the file to parse:
                                                                       ound safe sequence: P7 > P2 > P1 > P6 > P5 > P4 > P3
                                                                                                                                                             Found safe sequence: P7 > P6 > P2 > P3 > P1 > P4 > P5
                                                                       ound safe sequence: P7 > P2 > P3 > P1 > P4 > P5 > P6
                                                                       ound safe sequence: P7 > P2 > P3 > P1 > P4 > P6 > P5
                                                                                                                                                             Found safe sequence: P7 > P6 > P2 > P3 > P1 > P5 > P4
Attempting to locate safe sequences:
                                                                                                                  ound safe sequence: P7 > P2 > P6 > P5 > P3 > P1 >
                                                                                                                                                             Found safe sequence: P7 > P6 > P2 > P3 > P5 > P1 > P4
Found safe sequence: P7 > P2 > P1 > P3 > P4 > P5 > P6
                                                                                                                  ound safe sequence: P7 > P3 > P2 > P1 > P4 > P6 :
                                                                                                                                                             Found safe sequence: P7 > P6 > P2 > P5 > P1 > P3 > P4
Found safe sequence: P7 > P2 > P1 > P3 > P4 > P6 > P5
                                                                                                                  ound safe sequence: P7 > P3 > P2 > P1 > P5 > P6
                                                                                                                                                             Found safe sequence: P7 > P6 > P2 > P5 > P1 > P4 > P3
Found safe sequence: P7 > P2 > P1 > P3 > P5 > P4 > P6
                                                                                                                                                             Found safe sequence: P7 > P6 > P2 > P5 > P3 > P1 > P4
Found safe sequence: P7 > P2 > P1 > P3 > P5 > P6 > P4
Found safe sequence: P7 > P2 > P1 > P3 > P6 > P4 > P5
                                                                                                                                                             Found safe sequence: P7 > P6 > P3 > P2 > P1 > P4 > P5
 ound safe sequence: P7 > P2 > P1 > P3 > P6 > P5 > P4
                                                                       ound safe sequence: P7 > P2 > P3 > P6 > P1 > P5 > P4
                                                                                                                                                             Found safe sequence: P7 > P6 > P3 > P2 > P1 > P5 > P4
                                                                       ound safe sequence: P7 > P2 > P5 > P1 > P3 > P4 > P6
Found safe sequence: P7 > P2 > P1 > P4 > P3 > P6 > P5
                                                                                                                                                             Found safe sequence: P7 > P6 > P3 > P2 > P5 > P1 > P4
Found safe sequence: P7 > P2 > P1 > P4 > P5 > P3 > P6
                                                                                                                                                             Found safe sequence: P7 > P6 > P3 > P5 > P2 > P1 > P4
Cound safe sequence: P7 > P2 > P1 > P4 > P5 > P6 > P3
                                                                                                                                                             Found safe sequence: P7 > P6 > P5 > P2 > P1 > P3 > P4
Found safe sequence: P7 > P2 > P1 > P4 > P6 > P3 > P5
                                                                       ound safe sequence: P7 > P2 > P5 > P1 > P6 > P4 > P3
                                                                                                                  ound safe sequence: P7 > P3 > P5 > P2 > P6 > P1
                                                                                                                                                             Found safe sequence: P7 > P6 > P5 > P2 > P1 > P4 > P3
Found safe sequence: P7 > P2 > P1 > P4 > P6 > P5 > P3
 ound safe sequence: P7 > P2 > P1 > P5 > P3 > P4 > P6
                                                                                                                                                             Found safe sequence: P7 > P6 > P5 > P2 > P3 > P1 > P4
 ound safe sequence: P7 > P2 > P1 > P5 > P3 > P6 > P4
                                                                                                                                                             Found safe sequence: P7 > P6 > P5 > P3 > P2 > P1 > P4
                                                                                                                  ound safe sequence: P7 > P3 > P6 > P2 > P5 > P1
                                                                       ound safe sequence: P7 > P2 > P5 > P6 > P1 > P4 > P3
Found safe sequence: P7 > P2 > P1 > P5 > P4 > P6 > P3
                                                                       ound safe sequence: P7 > P2 > P5 > P6 > P3 > P1 > P4
                                                                                                                   ound safe sequence: P7 > P6 > P2 > P1 > P3 > P4
Cound safe sequence: P7 > P2 > P1 > P5 > P6 > P3 > P4
                                                                                                                                                             There are 100 safe sequences
Found safe sequence: P7 > P2 > P1 > P5 > P6 > P4 > P3
Cound safe sequence: P7 > P2 > P1 > P6 > P3 > P4 > P5
                                                                                                                                                             BUILD SUCCESSFUL (total time: 38 seconds)
  und safe sequence: P7 > P2 > P1 > P6 > P3 > P5 > P4
```

Figures 3, 4, 5, & 6. Showcasing the result of running Input.txt. Also showing how invalid files or un-parseable files are handled.