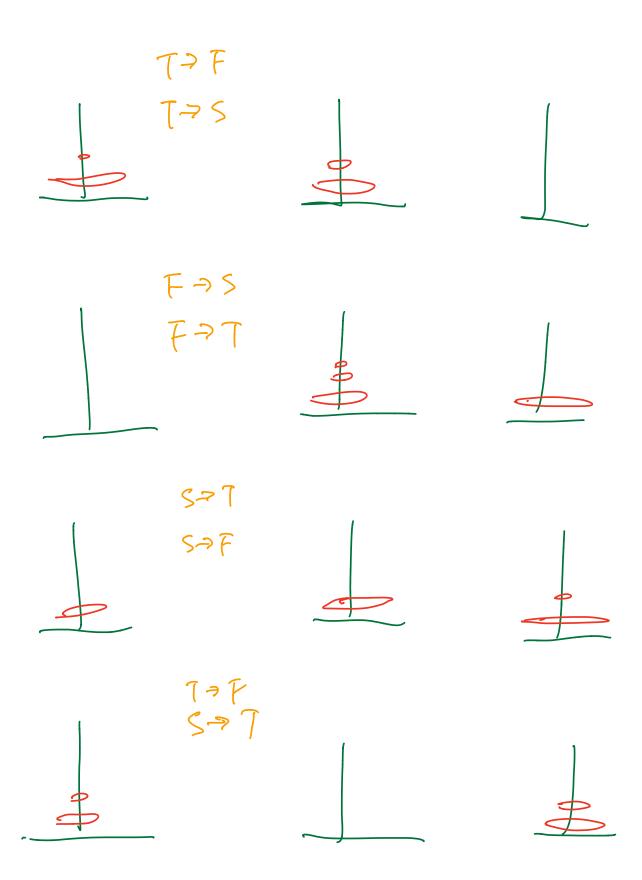
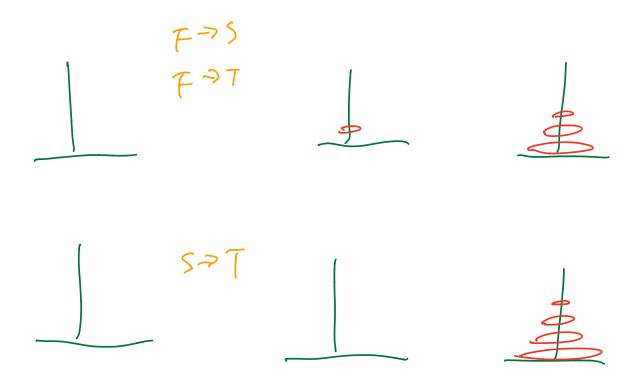
Assignment 3 Design. pdf.





Tomer. C

take user input -s
-t

For -v 1, set stack number, if nothing input, set to s

will use option " : str:" case :::: set to 5. case 'n' Set to atoi "optarg" Recurson: table pavameter count to keep track on how many moves.

(int recursion (int count, int size)
return the count.

sive ob not Recusion (Size, from, to, stop) if (su ==1) more from, to vitum count ++ Rechussion (sile-1, from, stop, to) more n to to. Recursion (size-1, stop, to, from)

```
move case i rrom peg s to peg C
Move disk 2 from peg 5 to peg A
Move disk 1 from peg C to peg B
Move disk 1 from peg C to peg B
Move disk 2 from peg A to peg C
Move disk 1 from peg A to peg C
Move disk 1 from peg B to peg B
Move disk 1 from peg C to peg B
Move disk 1 from peg C to peg B
Move disk 1 from peg C to peg B
Move disk 1 from peg C to peg B
Move disk 1 from peg A to peg B
Move disk 2 from peg C to peg B
Move disk 1 from peg A to peg B
Move disk 1 from peg A to peg C
Move disk 1 from peg A to peg C
Move disk 1 from peg A to peg C
Move disk 1 from peg B to peg C
Move disk 1 from peg B to peg C
Move disk 1 from peg B to peg C
Move disk 1 from peg B to peg C
Move disk 3 from peg A to peg B
Move disk 3 from peg B to peg C
Move disk 3 from peg B to peg C
Move disk 3 from peg B to peg B
Move disk 1 from peg C to peg B
Move disk 1 from peg C to peg B
```

	TheM	achin	9:	tower	darrell\$./tower -s						
2											
4											
	Move	disk	1	from	peg	Α	to	peg	В		
6	Move	disk	2	from	peg	A	to	peg	C		
	Move	disk	1	from	peg	В	to	peg	C		
ß	Move	disk	3	from	peg	Α	to	peg	В		
9	Move	disk	1	from	peg	C	to	peg	A		
0	Move	disk	2	from	peg	С	to	peg	В		
	Move	disk	1	from	peg	Α	to	peg	В		
	Move	disk	4	from	peg	A	to	peg	C		
	Move	disk	1	from	peg	В	to	peg	C		
ı	Move	disk	2	from	peg	В	to	peg	A		
	Move	disk	1	from	peg	C	to	peg	A		
1.6	Move	disk	3	from	peg	В	to	peg	C		

Stack implementation.

F=from T= To S= stop 3 Disks 4 D186 -2 pisks 1 Disk. F>S1 F > T 1 Fas F > T FAT 2 F 752 S=73 F > T 7 7 5 3 F9S. S > T_ 7 >7 2 SFT 2 573 7753 F7S , F9T, F>T2 S>T3 S > T-TƏF S>T Fas F> T 5-> T

```
If odd
If even
                 FG7 T
FGS
                  FG> S
FOT
                   T & S
 SGT
Pusedo co de
  While (desmatron not full) {
      if even
         F => 5 // Check which
                   one is legal
         FerT
          S Con T
      inf oold
         F => T // check which
         Fers one is legal
         T C> S
```

move ++ 1/ To beep Check
the more