Day:	Date: /
	Recursion
16.00	
and the second state of th	A recursive function is one that callestself.
e di sattificamenta con actiquinglique personanta con	
1-2/2	
The second section of the second	
White Val	roid print () {
2	
3	cout 20 mon This is infinite recursion also Stock
4	overflow "xcendl;
22/2	ent of water trop a reproduct of the
6	Loru print () relact
7	3
	The above code will print the message infin
	times because there is no condition to stop
	it. This condition is colled a base case:
	Logica minaral / The way
	void print (& int n) {
2	and a month shop is endly
3	pod gasto
4	if (n <=0) {
5	return;)
0	cout ec" This will shipto".
1	printe (n-V)
	Yousa

Days for no 5, the message will be printed Property of recursion: It must have a bose case The recursive must change state and mave buch receive function must call thelf Using stack to show reconsion. - It is always a good idea to as a a conderstand what is really happening. roid print Num (int n) { if (n c=0) return; If bore cores cout a "Number: "conceeds print Num (n-1); // recurring conc.

Day:	Date: / /
	or n = 5
	printhum 20 short returning short returned Terminal 2nd renorm
	hose reached wing
	printhum \$20 Jutramond Terminal
	brixerian 24 1/3rd course
	printed um mod/ Brokenon Number 5
	printerior 123 / fethermon to Number: 4
	Print Non n24 / Toth remove Number: 3
	Print Num n=5/ Merone Number: 2
	main // Number:
	carles sal any one call a large was
	In this case we can see that whenever a case
	is called, the statement is printed with it.
	This is core of First in, fight out.
	- Whatever come in hint printed it's content
	comout high.
	The state of the s
1	There can also be another age. First in
w/	last out. , SEE NEXT PAGE.
110.0000,0000 1000 100 \$. Obs. 104 - 3 * *	A proportion of the second second
and and an artistic plant of the control of the con	
to a survivor survivo	
	(Yousal)

1			
	void print Num () &		
2	sf (news) return; 4 beserver		
· 3			
5	2 11 N 1 11 vec-		
6	P print Alum (n-1); Il recurer cope.		
terroren en estara capital aproviation	Cout al Number		
ent famos ledigolites decima	200 1 200		
	- Now in this Program the statement comes		
	after recornie case.		
	•		
-			
		(2. /6-3/)	
		Ahrmone Terminal	
	print Num no Islant	Among. Terminal	
	print Num noo short print Num noo		
	print Num not	p Number: 1	
	print Num nol	» Number: 1 Number: 2	
	print Num nol print Num nol print Num nol	Number: 1 Number: 2 Number: 3	
	print Num n=2 print Num n=2 print Num n=3	Number: 1 Number: 2 Number: 3 Number: 4	
	print Num nol print Num nol print Num nol Print Num nol	Number: 1 Number: 2 Number: 3	
	print Num not may print Num not may	Number: 1 Number: 2 Number: 3 Number: 4 Number: 5	
	print Num not may print Num not may	Number: 1 Number: 2 Number: 3 Number: 4 Number: 5	
	print Num not may print Num not may	Number: 1 Number: 2 Number: 3 Number: 4	
	print Num not may print Num not may	Number: 1 Number: 2 Number: 3 Number: 4 Number: 5	

The contract is not been a part of the contract to the contrac	
Day:	Date: / /
	vous? let's ree asimpler vorsion for ne 1, 200
	HERE :
and the second s	void print Num W &
	if (n >.0) return;
	printpuln-1): # This lines ends as we have returned. now go he neget lines
participation and the same of	cout « " Number: " cancalende,
	3. m=1 so it is printed.
	- When we go on n 20, ue return
	and go pa back to print (1) wherea
	- when (n zo returns the prih Mune!) day done its job and ends and us
	go to nent like and the statement
	- Spinked.
	- Then after this line Number () is printed
	the fundamed, and in stack we
	can see that we go back to n=2 or
	print Run (2). and this will how print
	this continues like this.
	Yousal

Date: Day: diamond: both cases; Prinking a 2) Using void spaces (int n, int move) Ethelper func if (n = = man) & M A case So that no entraspeces return; 16 (n 4=0) { return }; UTrue bore coses spaces (n-1, max). brioggle (Int man int n) { 11 helper function { return; } bicongle (mase, n+1); Yousu

Date: / Day: word print pattern (int n, int max) [i((h = 0) return; space (n-1), max); briangle (man, n-1); margle (man, n); cout ecendl; print pattern (n-1, man); spaces (nimens; triangle (mane, n); - mangle (man, n+1); lover half. if (n!= man) { cout exertl; Yousa