PATTERNS Page No. 1) Solid rectangle 1 2 3 4 5 en or jo on - tudin real To peant 5 stars in n Hours in Jack Line -> lint main () of in the (in >> n; you (aint i=1; i = n; i+1) {

(out << "* * * * * " << end); Now take mas no of stars in each line 3() rism true = dit n, m; (in))n; Un >>m; for (unt i=1; i <= 200 m; (++)? for (unt j=1; j <= m- j++) & 3 cout << " *";

7	
	Date: / /
	Page No.
* =	Solid Square
,Jones	
	cuser input - n
	* * * * M
,	* * * * "
	* * * *
,	* * * *
A Partie	1)))
,,	
	m m m
٠,٠	unt main () L
	all fram Co-
,,	unt m;
	Cout <2" Enter no of stones & columns";
	(in) > n;
,,,,,,	Jan (int i=1: (= n: (++) d
-	1. (int i 1: 1/= 20: i + 1) P
	Jon (int j=1; j L=n; j++) &. (out << "*";
	2 (00) < "*";
,	5
	Cout LC endl;
-	3
	1
pol hages linguist account	
-	Carp 9-1234
	0 1234
(N)	mber 1234 => n=4 Square) 1234 ==
	Square 1234 =
104,11	Square 1234 =
tom,	
-	
1/20	

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	Date: / /
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	unt main () L
	dist m;
	(in)/11) you (aint i=1; (Z=n; () (++))
	for (and j=1; j 2=n; j++) 3
	Cout <<;;
	7
	Cout K endl;
	1
	T. A Ottomos
	Truangle Patterns
	Star triangle
1	*
2_	* * n=4
3	* * *
4	* * * *
	unt main () d
	JANA NIKOX IV
	unt m:
	Joseph Count his unit m; (in >> m;
	1 m (int i = 1 · i/= m · i + 1) P
	Jan (unt i=1; i<=m; i+t) { Jan (unt j=1; j<= i; j+t) { Cout << " * " ;
,	(aut 22 11 4 11)
	3
	Cout << end l
	y was signed a

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2	Star Triangle reverse
	* * * *
	* * * N=4
	* *
	*
	1 2 3 4
→ 1	
2	* * * -> 3 1
3	* * - 2.11:
<u> </u>	* - 1 !!!
2	Q
—	Row no. + no. of stars = n+1
	no of stars = n+1-i
#	int main () &
7.	in ms
	(in)) n;
	LC++1; (1=1); (2=n; i++) 20/
	$ \begin{array}{c} \text{dnt} & \text{in} \\ \text{(in)} & \text{in)} \\ \text{(in)} & \text{in)} & \text{in} \\ \text{(in)} & \text{in)} & \text{in)} & \text{in} \\ \text{(in)} & \text{in)} & \text{in} \\ \text{(in)} & \text{in)} & \text{in)} & \text{in)} & \text{in} \\ \text{(in)} & \text{in)} & \text{in)} & \text{in)} & \text{in} \\ \text{(in)} & \text{in)} & \text{in)} & \text{in)} & \text{in} \\ \text{(in)} & \text{in)} & \text{in)} & \text{in)} & \text{in} \\ \text{(in)} & \text{in)} & i$
	2 (out << " * ";
	3
	Cout Kendl;
	4
	II

Date : / / Page No. Number buangle (3) Jos (unt i=1; i2=n; i+1) 2

Jos (unt j=1; j2=i; j+1) 2

Cout <<j; Courteendl; good To prunt > 12 3 4 Put j2=n+l-i unsted j2=i Odd Number Triangle 2n=43 for (unit i=1; i <= n; 6i++) &

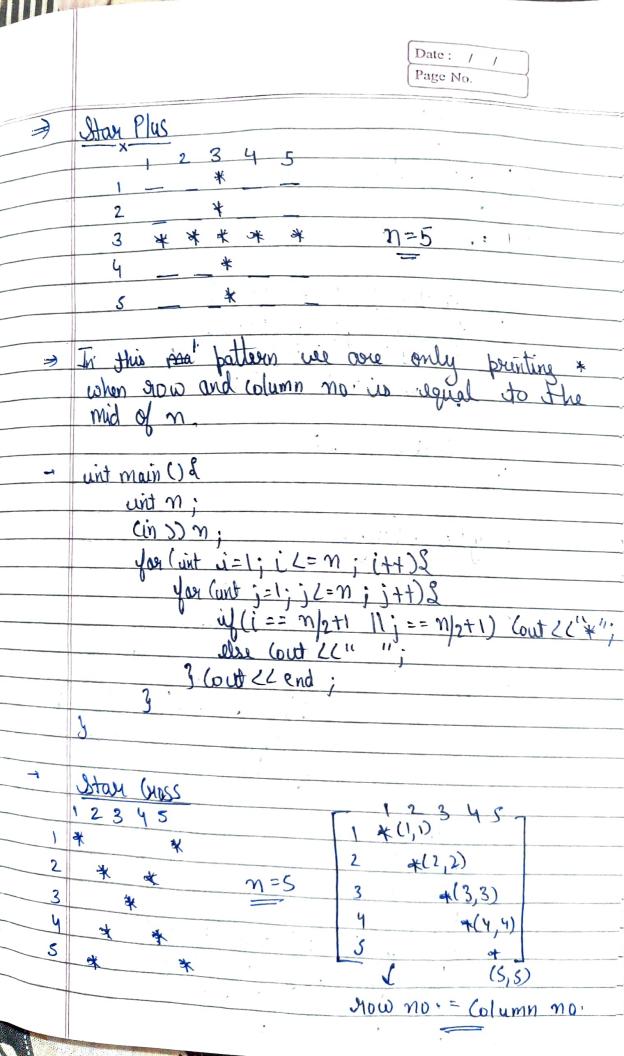
for (unit j=1; j <= d* mi-1; j+=2 &

Cout << j;

3 but < cendl;

		Date: / /
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	OR .	<i>x</i>
	for (int i=1; i<=n; i+1) {	,
	unt a=1; d for(unt j=1; j <= i; j ++) & (out << a;	,
	at=2;	
	Cout << endl;	
\Rightarrow	A Alphabet Pattern	
(i)	Alphabet Square	*
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	T of A = 65
	ABCD	11 B=66
	A B C D	11 (=37
	Jan (unt i = 1; i l=m; i++) & Yor (unt j=1; j l=m; j++) . Cout << (Char) (j+64).	1
	3	<u> </u>
	3 Cout << endl ;	
		1. 14 (· · · · · · · · · · · · · · · · · ·
		• •

, , ,



Date: / Page No. 12345 * (51) 4(4,2) *(5,3) + (+)=n+1 * (2,4) you (ant ii = 1; (\(\sigma \sigma \); (++) \(\)

for (unt j=1; j \(\sigma \sigma \); j \(\sigma \); \(\sigma but 22 endl; Eloyd's Truangle \Rightarrow extra reviable Géclère à reariable outside of the loop 10 - then unvenient it 1 after every where unt main () de unt m, K; an Dm; 1 X=1; 2(++; m=1; i=1 tru) rof 2(++i; i=1;i=1 tru) rof Cout CCK;

Date: / / Page No. Binary Triangle 3 101 n=4 > Method-1 (Using Extra Variable) if (10/02 = = 0) → | se start

Use > 0 se start & alternate 0&1 ent a, for (int i= 1; i (= m; i+1) } il (10102==0) a=0; 11 0100 no. even for (wid j = 1; j 2 = i; j + t) of Cout << a <<" "; // flipping w/ (a == 1) a = 0; } On a = 1-a else a = 1; => Method-2 if is both odd > 1 else - 0

	Data
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\Rightarrow	
	Star Triangle Eliphed
	1234
1	
	- * Spaces and states
2	* * 1
3	* * * doop doop
ÿ	w w i
	* * * *
	M
	the second secon
	+ * *
	* * *
	* * * *
	7 1
	for (unt i=1; i <=n; (++) &
	1/spaces
	100 () 100 ()
	Josi (int j= 1; jl= n-i; j+1) 2
	Cout 2211 11;
	2
	100 (int V-1 . V/-i . V1) 1
	for (int K=1; K <= i; K++) d (out << 011 **);
	(out <20" *";
,	3
	Cout Hendl;
	7
	. 01
=	18. Rhombus
	, — X —
	2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1 1 1 1 1 5 Space, 4 Stag
	- **** → 3 Strace, 4 Stag **** → 3 11 , 4 Stag
	*** > n=4 - Ishace, 4 stag
	*** Shale 4ct
	*** -> O shale, 4 star
	# # # # #
	- + * * * * * * * * * * * * * * * * * *
	* t d d
	The state of the s

	Date: / / Page No.	
7	for (unit i=1; i(=n; i++)&	
	11.5 haces Jose (unit j=1; j <= m-i; j++) & Cout << " ";	
	Cout <<" ";	
	Jun (int K=1; KZ=n; K++) & (out <"4";	
	Cout < 11 4 11 ;	
	3	
7	Stax Pyramad	
	*	*
		* * *
		*4 4 4 4 4

	O dol	Star
<u>-</u> j	Ald stage A 1	triangle
	Odd star terrangle ->	
1	4 1	
2	** + - 3 = j=1 to 2i-1	
3	4 7 4 d gb - 3 5	
9	* 4 * * * * * * * * * * * * * * * * * *	
	for (ant i = 1; i <= n; i++) &	
	for (ant;=1; j L=2i-1; j++) &	
	2 Cout << "4";	
	Gout Lendl;	

Page No. tay Pyramid for (int i = 1; (2=n; (++) 2 1/Spaces for (ant j=1; j 2=n-i; j+D2

cout <<""; Jose (unt K=1; KZ=2xi-1; K++)2 Cout <<" *"; Cout K end Number Pyramid Palinderomo 12321 To peunt -1 1 (2) 21 =)(j=i;j>=1;j--) (3) 321 (out < (i);Number pystamid Palendeione \$ for (int i=1; i \=n; (++) of

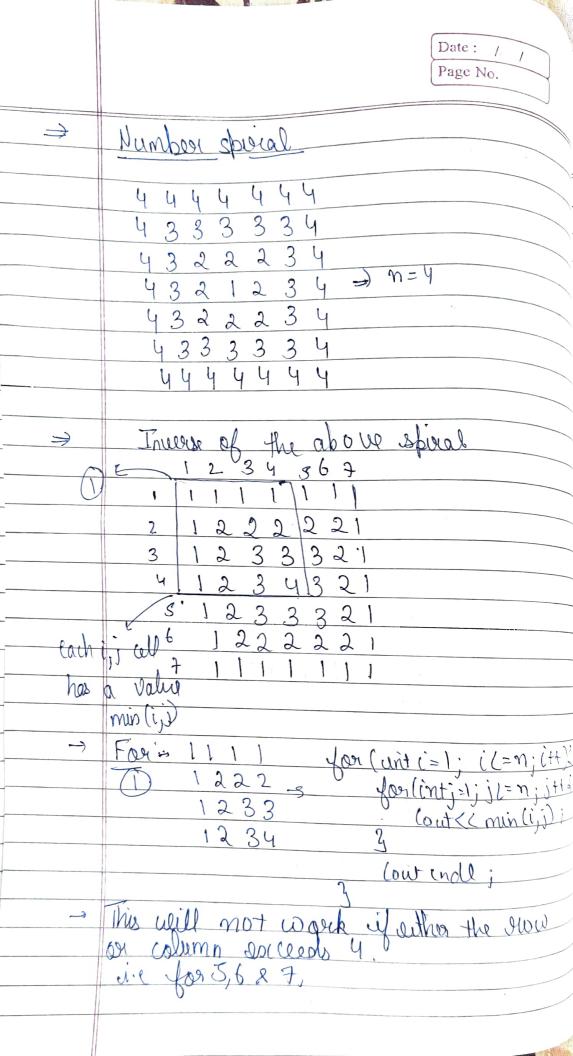
for (int x=1; K \= n-i; K++) d

Out <<""; for last j=1; j <= i; j++) Cout << j; for (unt g=i-1; q>=1; q-) cout << q cout < cendl

Date: / / Page No. Star Pysanica Diamond = → (= | to (<=20 n-1 *** **** <u>n=4</u> * * * * * * * * * * * * * * * nep=no. of spaces= n-1 -> 3 -> nsp--/nsp+nst=no. of spaces - 1 -> nst+=2/nst-=2

Sotill 4mline 4th line ind mst=1 unt msp = m-1 dor (unt i=1; i<=2*n-1; i++) å //Spaus for (vit j=1;j <= msp; j++) 2

cout <<" "; if (it=n-1) nsp--; Con 11 Stars Jos (ait K=1; K = mst; K++) & if (i k=n-1) nst+=2; Cout Kendl,



Date: / / Page No.
We den bypass it if somehow use convert the one of the mo. 5,687 to @ 3,281 arespectively by using pseudo 21000 no.
And some for the column Mo.
 We can apply if (ond if (a>n) a=2*n-i;

Marie Walter