

Special class

Sat -> 0900PM 1) oubt Class Sun -> 02:00PM -> Mega Class Question -> Try yourself > videodelcho -> No.of Question 1.W -> 1/205 Roachice Pur pose

Full Pyramid \times 人 2 * for each you Spaces

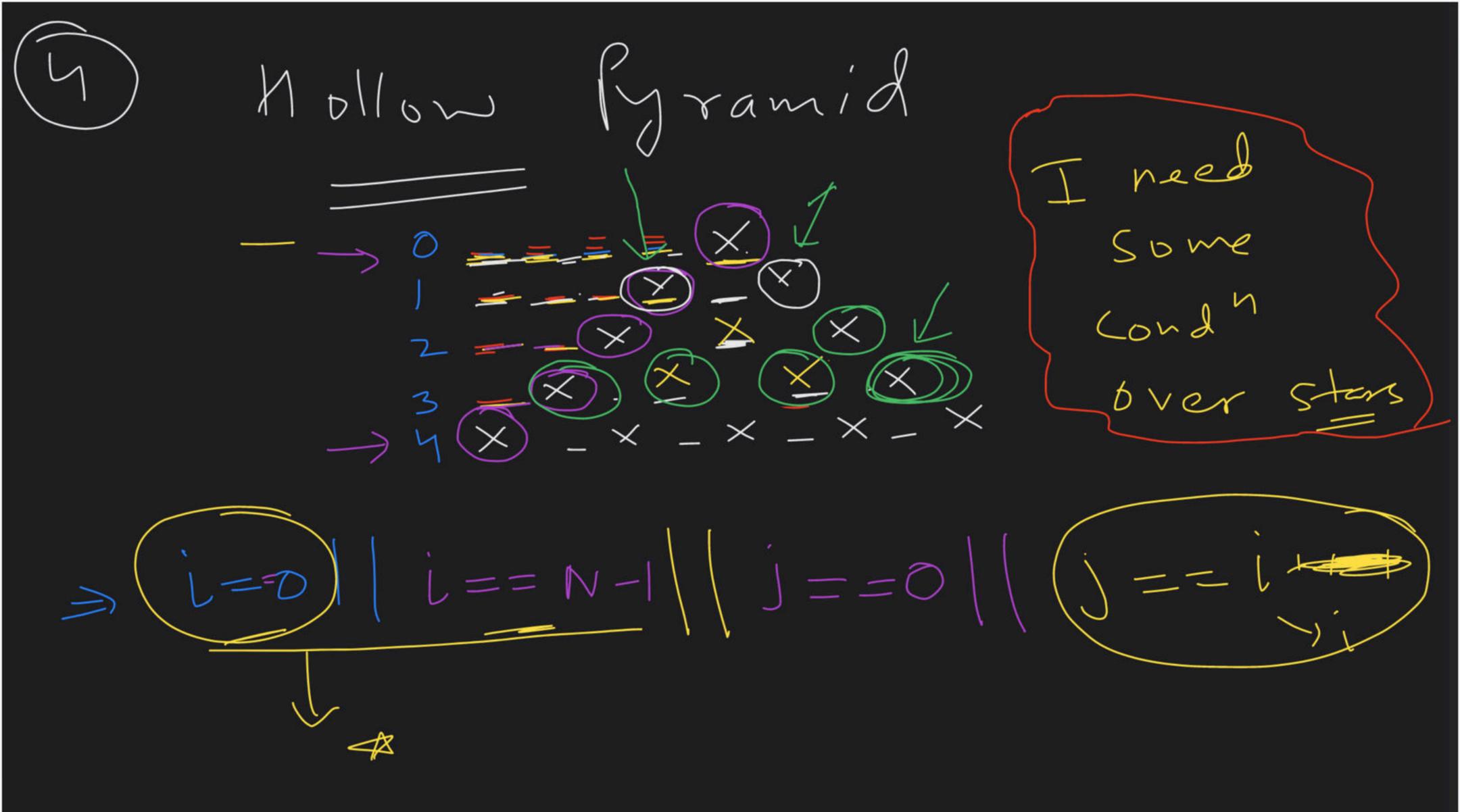


```
void fullPyramid(int n) {
                                 N=
->for (int row = 0; row < n; row++) {</pre>
 for (int col = 0; col < n - row - 1; col++)
   // 1. spaces
    for (int col = 0; col < row + 1; col++)
    cout << "* ":
   cout << endl;</pre>
                          C6 <
```

80W ([0,5) -> ([0,4] N=5 70W= (-) _ - _ X_ - - - × - × ---×-×-- 2 --X - X - X - $\times - \times - \times - \times =$ _ 3/1/

Outer Coup Inverted Bramid îe (o,N) *_ × _ × _ × _ × _ × _ × _ inner Coop $-\times -\times -\times -$ I >> je (o,i) ('*_\') O SP / SA 1 mer 600; -> 1=0-> i=2 -> 3-5P / 2-12 4 5P / 1 12

) Ix wond V = 5 I -> Jull ~ _ × _ × _ × \times - \times - \times ×



kuch space (cro

T ster print

Space.

Space.

```
void hollowPyramid(int n) {
 // leveraging full pyramid code
  for (int i = 0; i < n; i++) {
   // 1. spaces
    for (int j = 0; j < n - i - 1; j++)
      cout << " ";
    // 2. stars
    for (int j = 0;
      cout << "* ";
    cout << endl;
```

```
void invertedFullPyramid(int n) {
                                        J ( 0,5)
  // outer loop
  for (int i = 0; i < n; i++) {
    // I spaces
    for (int j = 0; j < i; j++)
      cout << " ";
    // II stars
    for (int j = 0; j < n - i; j++)
      cout << "* ";
                                      \rightarrow j \in [o, n-i]
    cout << endl;</pre>
```

Mollow Diamond Hollow Ry Smin

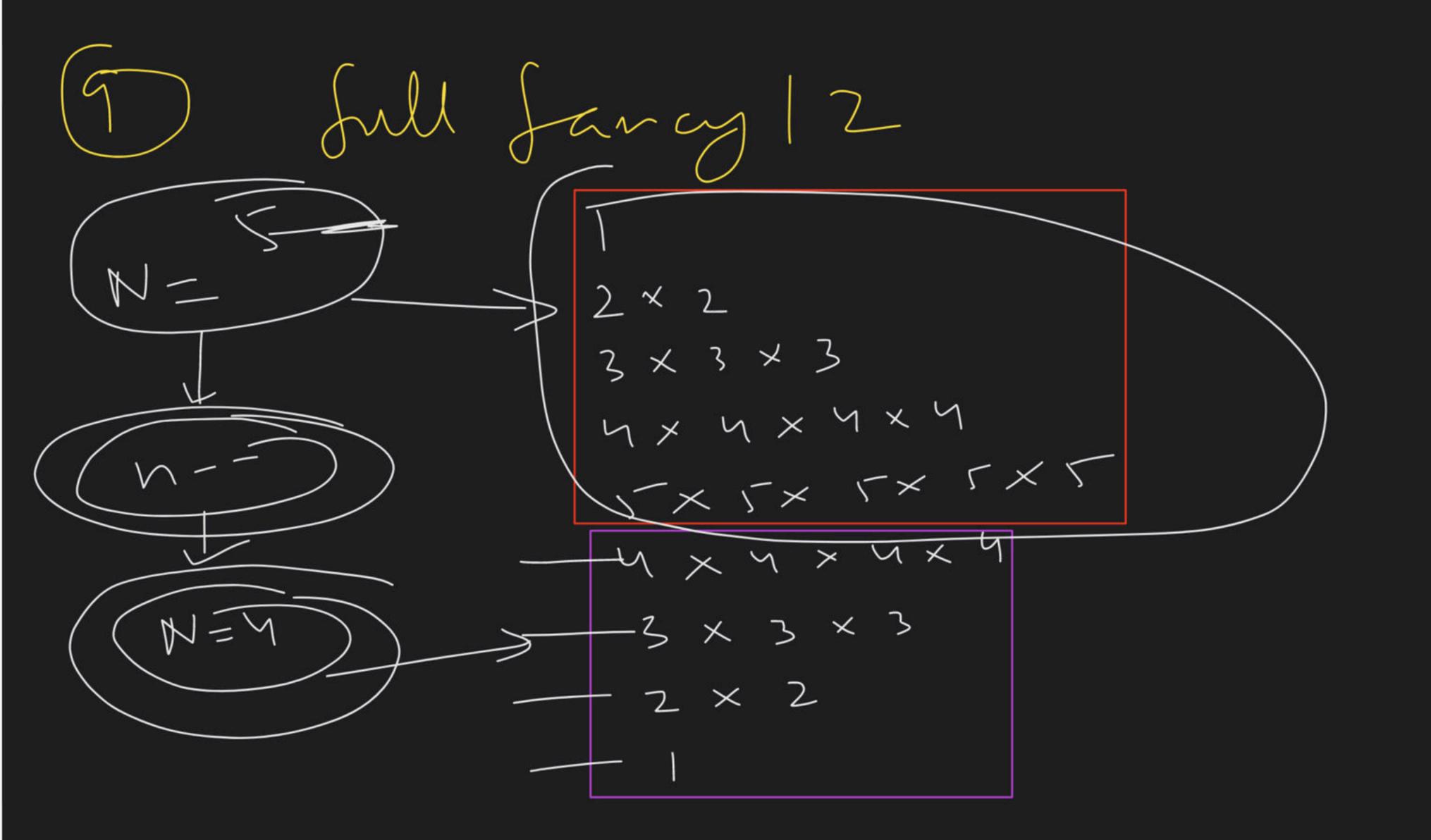
- Fallwith N= 4 1 = 0 _______ Space -> ~0 -> 4x/15p, 4x 8 3 m/3 sp/3 A I > Stars -> j \ \[\do, n - i \] 827 2#, 55p, 2# ~3 -> 1 PD , 7=5P, 1 A III -> A -> j (o, n-i)

je [0,2i+1)

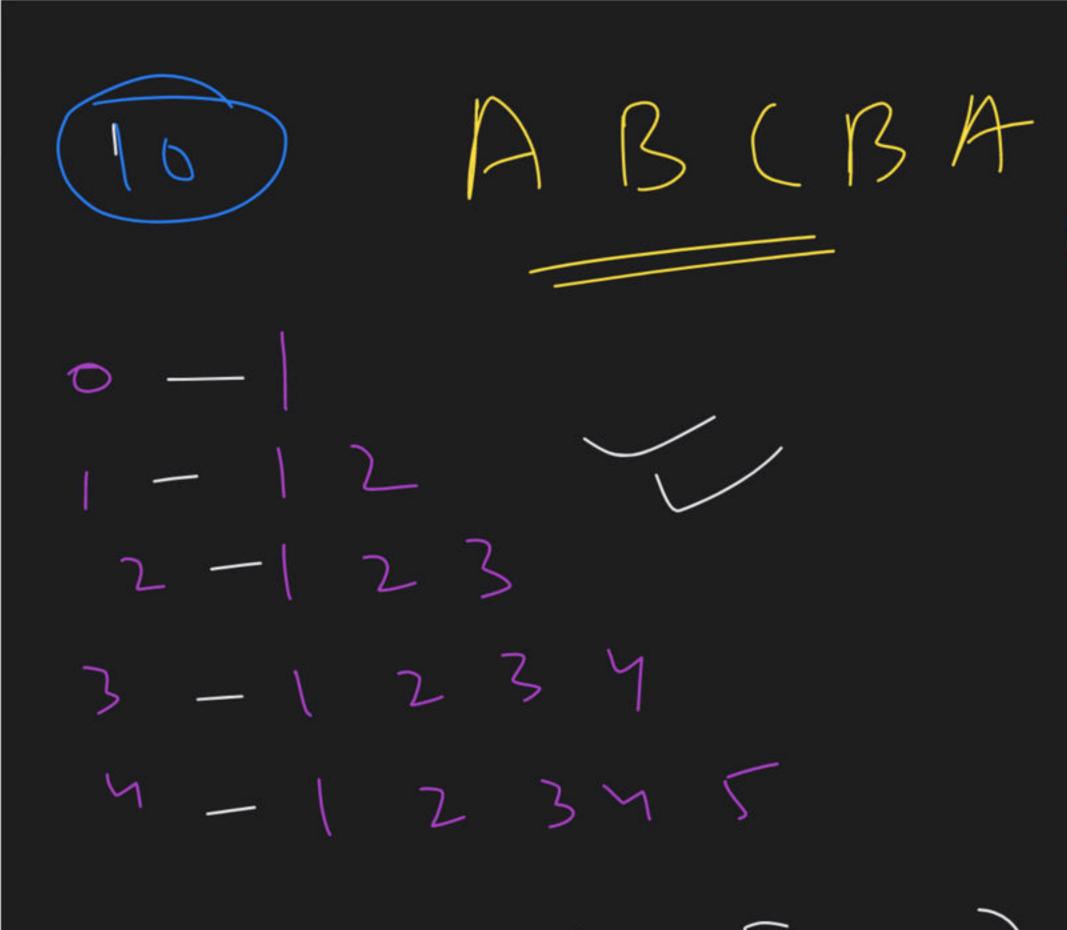
2 i+ 1 ~ 1 3 3 5 7

1-1-1 ; (0, i+1) $j \in [0, 2n-2i-1)$ $= 3, (j \in [0,3])$ 11 D-> i=1->(je[0,5))

(8) Fancy 12 Pattern Outer Loup L) i + [0, n) i 0-> 1 3 x 3 x 3 $j \in [0,2i+1)$ i = 2MX MX MX MX 5×5×5×5 77777 012545678 Simerlap -> even , no, -> (FT) Odd -> A



(N=4) 5 = (D) 1 2 3 4 5 C 1-0-> 1/1 × 4-× 4. ×. 4 Onter 3 × 3 $\frac{2}{3} \times 2$ $l \in [0, N)$ $2 \left[n-i \right]-1$ 7-Times. 7-0,2(n) InnerLoop -> · - 0, 5 Timn ' | | 2[4-1]-1 3 Times. 2 / 1 Times -> jeven -> n-i odd-> A



A 13 A ABC13A ABCDCBA ABIDEDLBA

Outer > i ([0,5) inner loop -) j ([0,i+1)



```
void ABCBA(int n) {
  for (int i = 0; i < n; i++) {
    char ch = 'A' - 1; // ASCII 64 initialize
    for (int j = 0; j < i + 1; j++) {
     ch = ch + 1;
                                          Ch - 641/
     cout << ch;
    cout << endl;
```







