



```

for (int i = 0; i < N; i++) {
    for (int j = 0; j < N; j++) {
        int ans = 1;
        for (int k = 1; k <= (i+j)/2; k++) {
            ans = (ans * (i-j+1+k)) / k;
        }
        if ((i+j)%2 == 0) ans = ans * (i-j+1+(i+j)/2);
        res[i][j] = ans;
    }
}
return res;
}

```

Handwritten binary code for the number 9876543210. The code is written on lined paper with blue horizontal lines. The digits 9 through 0 are written in red at the bottom. The binary code is organized into columns for each digit. The columns are labeled 9, 8, 7, 6, 5, 4, 3, 2, 1, 0 from left to right. The binary code for each digit is as follows: 9: 100110100, 8: 100001101, 7: 100000110, 6: 100000011, 5: 100000001, 4: 100000000, 3: 100000000, 2: 100000000, 1: 100000000, 0: 100000000. The code is written in blue ink.

	1	2	3	4	5	6	7	8	9
1	5	3		7					
2	6	9	1	9	5				
3		9	8				6		
4	8				6				3
5	4			8	3				1
6	7			2					6
7		6					2	8	
8					4	1	9		5
9				8			7	9	

e.	d	e
		u

$$(5, 8) \rightarrow (1, 2)$$