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1.
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#include<stdio.h>
int main(){
    int rows,i,j;
    printf("Enter no of rows\n");
    scanf("%d",&rows);
    int count = 1;
    for(i=0;i<rows;i++){</pre>
        if(i == 0){
             printf("%d\n" , count);
             count++;
        }
        else{
             for(j=0;j<=2*i;j++){</pre>
                 if(j\%2 == 0){
                     printf("%d ", count);
                 }
                 else{
                     printf("* ");
                 }
             }
             count++;
             printf("\n");
        }
    }
    return 0;
}
2.
#include<stdio.h>
int main(){
    int rows,i,j;
    printf("Enter no of rows\n");
    scanf("%d",&rows);
    for(i=0;i<rows;i++){</pre>
        for(j=0;j<=i;j++){</pre>
             if(i==j || (i%2 == 0 && j%2 == 0))
                 printf("1 ");
             else
                 printf("0 ");
        printf("\n");
    }
    return 0;
}
```

Pointer

- 1. Pointer is a variable which stores the address of other variable
- 2. *p = arr or p=&arr[0]
- 3. every element of arr can be accessed by using p++

Array

- 1. Array is a group of elements shares common name. Contiguous memory location is allocated for elements of the array by the compiler
- 2. the base address is the location of the first element (index 0) of the array
- 3. can't access by arr ++ . it is wrong notation