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main.c

1 // Q1. What will be the output of the C program, if input is 6?

2 #include<stdio.h>

3 int main()

4 {

5 int i;

6 for(i = 0; i>9; i+=3)

7 {

8 printf("for ");

9 }

10 return 0;

11 }

12

input

...Program finished with exit code 0

Press ENTER to exit console.

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main.c

```
1 // Q2. What will be the output of the C program by considering 'b' as a
2 // User input?
3 #include<stdio.h>
4 int main()
5 {
6     int i = 1, j = 1;
7     for(--i && j++ ; i<10; i+=2)
8     {
9         printf("loop ");
10    }
11    return 0;
12 }
```

input

```
loop loop loop loop loop
...Program finished with exit code 0
Press ENTER to exit console.
```

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input

[illegible]

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main.c

```
1 // Q4. What will be the output of the C program?
2 #include<stdio.h>
3 int main()
4 {
5     int n;
6     for (n = 9; n!=0; n--)
7         printf("n = %d", n--);
8     return 0;
9 }
```

input

```
-25723n = -25725n = -25727n = -25729n = -25731n = -25733n = -25735n = -25737n = -25739n = -25741n = -25743n = -25745n
-25747n = -25749n = -25751n = -25753n = -25755n = -25757n = -25759n = -25761n = -25763n = -25765n = -25767n = -257
69n = -25771n = -25773n = -25775n = -25777n = -25779n = -25781n = -25783n = -25785n = -25787n = -25789n = -25791n = -
25793n = -25795n = -25797n = -25799n = -25801n = -25803n = -25805n = -25807n = -25809n = -25811n = -25813n = -25815n
-25817n = -25819n = -25821n = -25823n = -25825n = -25827n = -25829n = -25831n = -25833n = -25835n = -25837n = -2583
9n = -25841n = -25843n = -25845n = -25847n = -25849n = -25851n = -25853n = -25855n = -25857n = -25859n = -25861n = -2
5863n = -25865n = -25867n = -25869n = -25871n = -25873n = -25875n = -25877n = -25879n = -25881n = -25883n = -25885n =
```

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main.c

```
1 // Q5. What will be the output of the C program?
2 #include <stdio.h>
3 int main()
4 {
5     int c = 5, no = 10;
6     do {
7         no /= c;
8     }
9     while(c--);
10    printf ("%dn", no);
11    return 0;
12 }
```

input

```
...Program finished with exit code 0
Press ENTER to exit console.
```

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main.c

```
1 //Q6(a)
2 #include <stdio.h>
3 int main() {
4     int i, space, rows, k= 0,j=0;
5     printf("Enter the number of rows: ");
6     scanf("%d", &rows);
7     for (i = 1; i <= rows; ++i, k = 0) {
8         for (space = 1; space <= rows - i; ++space) {
9             printf(" ");
10        }
11        while (k != 2 * i - 1) {
12            printf("* ");
13            ++k;
14        }
15        printf("\n");
16        for (i = rows-1; i >= 1; --i) {
17            for (space = 0; space < rows - i; ++space)
18                printf(" ");
19            for (j = i; j <= 2 * i - 1; ++j)
20                printf("* ");
21            printf("\n");
22        }
23        return 0;
24    }
```

input

Enter the number of rows: 10


```

      *
     **
    ***
   ****
  *****
 *****
  *****
   ****
    ***
     **
      *
```

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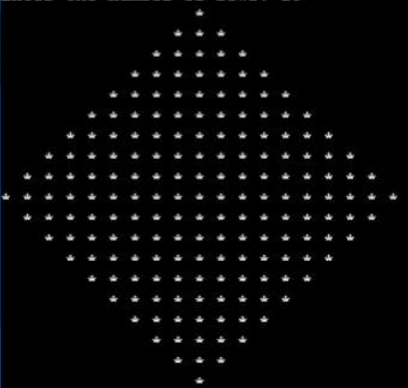
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main.c

```
1 //Q6(a)
2 #include <stdio.h>
3 int main() {
4     int i, space, rows, k= 0,j=0;
5     printf("Enter the number of rows: ");
6     scanf("%d", &rows);
7     for (i = 1; i <= rows; ++i, k = 0) {
8         for (space = 1; space <= rows - i; ++space) {
9             printf(" ");
10        }
11        while (k != 2 * i - 1) {
12            printf("* ");
13            ++k;
14        }
15        printf("\n");
16    }
```

input

Enter the number of rows: 10



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main.c

```
1 //Q6(b)
2 #include <stdio.h>
3 int main(){
4     int i,j,a,k,space;
5     char ch='A';
6     printf("enter the number of rows you want ");
7     scanf("%d" , &a);
8     for(i=1;i<=a;i++){
9         for (i = 1; i <= a; ++i,k=0) {
10             for (space = 1; space <= a - i; ++space) {
11                 printf(" ");
12             }
13             for(j=1;j<=i;j++){
14                 printf("%c ",ch++);
15                 printf(" ");
16             }
17             printf("\n");
18         }
19         return 0;
20     }
```

input

```
enter the number of rows you want 7
      A
     B C
    D E F
   G H I J
  K L M N O
 P Q R S T U
V W X Y Z [ \
...Program finished with exit code 0
```

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```
1 //Q6(c)
2 #include <stdio.h>
3 int main() {
4     int i, space, rows, k= 0,j=0,1;
5     printf("Enter the number of rows: ");
6     scanf("%d", &rows);
7     for (i = 1; i <= rows; ++i, k = 0) {
8         for (space = 1; space <= rows - i; ++space) {
9             printf(" ");
10        }
11        while (k != i) {
12            printf("%d ", i);
13            ++k;
14        }
15        printf("\n");
16    }
17    return 0;
18 }
```

Enter the number of rows: 5
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
...Program finished with exit code 0
Press ENTER to exit console.

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f

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main.c

```
1 //Q6(d)
2 #include <stdio.h>
3 int main() {
4     int i, space, rows, k= 0,j=0;
5     printf("Enter the number of rows: ");
6     scanf("%d", &rows);
7     for (i = 1; i <= rows; ++i, k = 0) {
8         for (space = 1; space <= rows - i; ++space) {
9             printf(" ");
10        }
11        for(j=1;j<=15;j++)
12            while (k != i) {
13                printf("%d" , j++);
14                printf(" ");
15                ++k;
16            }
17        printf("\n");
18    }
19 }
```

input

```
Enter the number of rows: 5
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

...Program finished with exit code 0
Press ENTER to exit console.
```

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f

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main.c

```
1 //Q6(e)
2 #include <stdio.h>
3 int main() {
4     int i, space, rows, k= 0,j=1;
5     printf("Enter the number of rows: ");
6     scanf("%d", &rows);
7     for (i = 1; i <= rows; ++i, k = 0) {
8         for (space = 1; space <= rows - i; ++space) {
9             printf(" ");
10        }
11        while (k != i) {
12            printf("%d", j++);
13            printf(" ");
14            ++k;
15        }
16        printf("\n");
17    }
18 }
```

input

```
Enter the number of rows: 5
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15

...Program finished with exit code 0
Press ENTER to exit console.
```

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f

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main.c

```
1 //Q6(f)
2 #include <stdio.h>
3 int main() {
4     int i, space, rows, k= 0,j=0;
5     printf("Enter the number of rows: ");
6     scanf("%d", &rows);
7     for (i = 1; i <= rows; ++i, k = 0) {
8         for (space = 1; space <= rows - i; ++space) {
9             printf(" ");
10        }
11        for(j=1;j<=15;j++)
12            while (k != i ) {
13                printf("%d," , 3*j++);
14                printf(" ");
15                ++k;
16            }
17        printf("\n");
18    }
19 }
```

input

Enter the number of rows: 6
3,
3, 6,
3, 6, 9,
3, 6, 9, 12,
3, 6, 9, 12, 15,
3, 6, 9, 12, 15, 18,

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```
1 // Q6(g)
2 #include<stdio.h>
3 int main()
4 {
5     int i,j,row;
6     printf("Enter number of rows: ");
7     scanf("%d",&row);
8     for(i=1;i<=row;i++){
9         for(j=1;j<=row-i;j++){
10             {
11                 printf(" ");
12             }
13             for(j=i;j>=1;j--){
14                 printf("%d", j);
15             }
16             for(j=2;j<=i;j++){
17                 printf("%d", j);
18             }
19             printf("\n");
20         }
21     return 0;
22 }
```

input

Enter number of rows: 8

1
212
32123
4321234
543212345
65432123456
7654321234567
876543212345678