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NBTG13715
F8

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Ans (1) → It prints nothing because for loop condition fails at the first iteration itself.

Ans (2) → loop loop loop loop loop

here, for(--i && j++ ; i<10; i+=2)
for(0 && 1 ; i<10 ; i+=2)
for(0; i<10; i+=2)
printf("loop") //executes
then for loop becomes (i=2; i<10; i++)
then printf("loop") //executes 4 times.
Hence,
Totally 5 loops prints.

Ans (3) → Infinite loop printing Hello@@ will run.
Here in condition place of for loop, we just put a non zero value, thus it becomes infinite for loop.

Ans (4) → The program goes in an infinite loop because n is never zero when loop condition (n!=0) is checked, n changes like 9 7 5 3 1 -1 -3 -5 -7 -9

Ans (5) → Runtime Error will come.
There is a bug in the above program. It goes inside the do while loop for c=0. Also as the increment is post increment, so (n%c) will create a divide by 0 error. So it fails during runtime.

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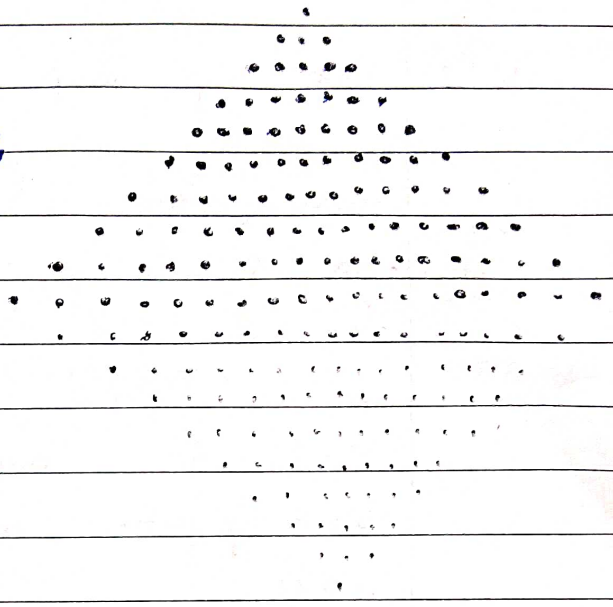
Try (6)

Code

```
#include<stdio.h>
int main()
{
  int n, c, k, space=1;
  printf("Enter no. of rows\n");
  scanf("%d", &n);
  space = n-1;
  for (k=1; k<=n; k++)
  {
    for (c=1; c<=space; c++)
      printf(" ");
    space--;

    for (c=1; c<=2*k-1; c++)
      printf("*");
    printf("\n");
  }

  space=1;
  for (k=1; k<=n-1; k++)
  {
    for (c=1; c<=space; c++)
      printf(" ");
    space++;
    for (c=1; c<=2*(n-k)-1; c++)
      printf("*");
    printf("\n");
  }

  return 0;
}
```

Output

```
Enter no. of rows
10
```



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Code→

```
#include<stdio.h>
int main()
{
   int i,j;
   for(i=1; i<=5; i++)
     {
      for(j=5;j>i;j--)
      {
         printf(" ");
      }
      for(j=1;j<=i;j++)
      {
         printf("%d",j);
      }
      printf("\n");
}
return 0;
}
```

Output

```
    1
   1 2
  1 2 3
 1 2 3 4
1 2 3 4 5
```