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(i)	(ii)	(iii)		

4)

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5)		
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(i)	(ii)	(iii)

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(iv)

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(i)				(ii)			
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```
Pattern Solution:
============
Pattern 1(i)
#include <stdio.h>
int main(){
 int rows,i,j;
  printf("Enter the number of rows:");
 scanf("%d", &rows);
 for(i=1; i<=rows; i++){
    for(j=1; j<=rows; j++){
      printf("*");
   }
   printf("\n");
 }
 return 0;
```

```
Pattern 1(ii)
```

```
#include <stdio.h>
int main(){
 int rows,i,j,k;
  printf("Enter the number of rows:");
 scanf("%d", &rows);
 for(i=1; i<=rows; i++){
    for(k=1; k<=rows-i; k++){
      printf(" ");
    for(j=1; j<=rows; j++){
      printf("*");
    }
    printf("\n");
  }
  return 0;
```

```
#include <stdio.h>
int main(){
  int rows,i,j,k;
  printf("Enter the number of rows:");
  scanf("%d", &rows);
  for(i=1; i<=rows; i++){
    for(k=1; k<=i; k++){
      printf(" ");
    }
    for(j=1; j<=rows; j++){
      printf("*");
    }
    printf("\n");
  }
  return 0;
}
```

```
#include <stdio.h>
int main(){
  int i,j,rows;
  printf("Enter the number of rows:");
  scanf("%d", &rows);
  for(i=1; i<=rows; i++){
    for(j=1; j<=rows; j++){
      if(i==1 || i==rows || j==1 || j==rows)
         printf("*");
      else
         printf(" ");
    }
    printf("\n");
  }
  return 0;
}
```

```
#include <stdio.h>
int main(){
 int i,j,k,rows;
  printf("Enter the number of rows:");
  scanf("%d", &rows);
 for(i=1; i<=rows; i++){
    for(k=1; k<=rows-i; k++){
      printf(" ");
    }
    for(j=1; j<=rows; j++){
      if(i==1 || i==rows || j==1 || j==rows)
        printf("*");
      else
        printf(" ");
    }
    printf("\n");
  }
  return 0;
```

```
Pattern 2(iii)
```

#include <stdio.h> int main(){ int i,j,k,rows; printf("Enter the number of rows:"); scanf("%d", &rows); for(i=1; i<=rows; i++){ for(k=1; k<=i; k++){ printf(" "); } for(j=1; j<=rows; j++){ if(i==1 || i==rows || j==1 || j==rows) printf("*"); else printf(" "); } $printf("\n");$ } return 0;

```
include <stdio.h>
int main(){
  int i,j,rows;
  printf("Enter the number of rows:");
  scanf("%d", &rows);
  for(i=1; i<=rows; i++){
    for(j=1; j<=rows; j++){
      if(i==1 | | i==rows | | j==1 | | j==rows | | i==j)
         printf("*");
       else
         printf(" ");
    }
    printf("\n");
  }
  return 0;
}
```

```
#include <stdio.h>
int main(){
 int i,j,rows;
  printf("Enter the number of rows:");
  scanf("%d", &rows);
 for(i=1; i<=rows; i++){
    for(j=1; j<=rows; j++){
      if(i==1 | | i==rows | | j==1 | | j==rows | | j==rows-i+1)
        printf("*");
      else
        printf(" ");
    }
    printf("\n");
  }
 return 0;
```

```
#include <stdio.h>
int main(){
 int i,j,rows;
  printf("Enter the number of rows:");
  scanf("%d", &rows);
 for(i=1; i<=rows; i++){
    for(j=1; j<=rows; j++){
      if(i==1 | | i==rows | | i==j | | j==rows-i+1)
        printf("*");
      else
        printf(" ");
    }
    printf("\n");
  }
  return 0;
```

}

return 0;

```
#include <stdio.h>
int main(){
  int i,j,rows;
  printf("Enter the number of rows:");
  scanf("%d", & rows);

for(i=1; i<=rows; i++){
  for(j=1; j<=i; j++){
    printf("*");
  }
  printf("\n");</pre>
```

```
#include <stdio.h>
int main(){
 int i,j,k,rows;
  printf("Enter the number of rows:");
 scanf("%d", & rows);
 for(i=1; i<=rows; i++){\
    for(k=1; k<=rows-i; k++){
      printf(" ");
    }
    for(j=1; j<=i; j++){
      printf("*");
    }
    printf("\n");
  }
 return 0;
```

```
#include <stdio.h>
int main(){
  int i,j,k,rows;
  printf("Enter the number of rows:");
  scanf("%d", & rows);
  for(i=1; i<=rows; i++){
      for(k=1; k<=rows-i; k++){
        printf(" ");
      }
    for(j=1; j<=2*i-1; j++){
      printf("*");
    }
    printf("\n");
  }
  return 0;
}
```

```
#include <stdio.h>
int main(){
 int i,j,rows;
  printf("Enter the number of rows:");
 scanf("%d", & rows);
 for(i=1; i<=rows; i++){
    for(j=1; j<=i; j++){
      if(i==1 || i==rows || j==1 || j==i)
      printf("*");
      else
      printf(" ");
    }
    printf("\n");
  }
 return 0;
```

```
#include <stdio.h>
int main(){
 int i,j,k,rows;
  printf("Enter the number of rows:");
  scanf("%d", & rows);
 for(i=1; i<=rows; i++){
    for(k=1; k<=rows-i; k++){
      printf(" ");
    }
    for(j=1; j<=i; j++){
      if(i==1 || i==rows || j==1 || j==i)
      printf("*");
      else
      printf(" ");
    }
    printf("\n");
  }
 return 0;
```

```
Pattern 5(iii)
```

#include <stdio.h> int main(){ int i,j,k,rows; printf("Enter the number of rows:"); scanf("%d", &rows); for(i=1; i<=rows; i++){ for(j=1; j<=rows-i; j++){ printf(" "); } for(k=1; k<=2*i-1; k++){ if(i==1 || i==rows || k==1 || k==2*i-1) printf("*"); else printf(" "); } $printf("\n");$ } return 0;

```
#include <stdio.h>
int main(){
 int i,j,rows;
  printf("Enter the number of rows :");
  scanf("%d", &rows);
 for(i=1; i<=rows; i++){
    for(j=i ; j<=rows ; j++){
      printf("*");
    }
    printf("\n");
  }
 return 0;
```

```
#include <stdio.h>
int main(){
 int i,j,k,rows;
  printf("Enter the number of rows :");
 scanf("%d", &rows);
 for(i=1; i<=rows; i++){
    for(k=1; k<=i; k++){
      printf(" ");
    }
    for(j=i ; j<=rows ; j++){
      printf("*");
    }
    printf("\n");
  }
 return 0;
}
```

```
#include <stdio.h>
int main(){
  int i,j,k,rows;
  printf("Enter the number of rows:");
  scanf("%d", & rows);
  for(i=1; i<=rows; i++){
      for(k=1; k<=i; k++){
        printf(" ");
      }
    for(j=1; j<=(rows*2-(2*i-1)); j++){
      printf("*");
    }
    printf("\n");
  }
  return 0;
}
```

```
#include <stdio.h>
int main(){
 int i,j,rows;
  printf("Enter the number of rows :");
  scanf("%d", &rows);
 for(i=1; i<=rows; i++){
    for(j=i ; j<=rows ; j++){
      if(i==1 | | i==rows | | j==i | | j==rows)
           printf("*");
      else
         printf(" ");
    }
    printf("\n");
  }
 return 0;
}
```

```
Pattern 7(ii)
```

```
#include <stdio.h>
int main(){
  int i,j,k,rows;
  printf("Enter the number of rows :");
  scanf("%d", &rows);
 for(i=1; i<=rows; i++){
    for(k=1; k \le i; k++){
      printf(" ");
    }
    for(j=i ; j<=rows ; j++){
      if(i==1 | | i==rows | | j==i | | j==rows)
           printf("*");
      else
         printf(" ");
    }
    printf("\n");
  }
 return 0;
```