

```

2  #include <stdlib.h>
3  #include<windows.h>
4  #include <time.h>
5  void gotoxy( x, y);
6  int main()
7  {
8      int size = 0;
9
10     printf("Enter the  an odd size of the box: ");
11     scanf("%d", &size);
12
13     if( size % 2 ==0 )
14     {
15         while(size % 2 ==0)
16         {
17             printf("Please Enter a valid \"odd\" number:");
18             scanf("%d", &size);
19         }
20     }
21     system("cls");
22     printf("Magic Square with size %d", size);
23
24     int row =1;
25     int col =(size+1)/ 2 ;
26     int value=1;
27
28     for(int i = 0 ; i< size*size ; i++)
29     {
30         gotoxy(col*4,row);
31         sleep(1);
32         printf("%4d", value);
33
34         if(0 == value % size )
35         {
36             row++ ;
37         }
38         else
39         {
40             row--;
41             col--;
42         }
43         if(0 == row)
44         {
45             row = size ;
46         }
47         if( 0 == col)
48         {
49             col = size;
50         }
51         value ++ ;
52     }
53
54     return 0;
55 }

```

"H:\3) C\Labs\Lab_2\magic_box\bin\Debug\magic_box.exe"

Magic Square with size 3

```

6  1  8
7  5  3
2  9  4

```

Process returned 0 (0x0) execution time : 21.201 s
Press any key to continue.