N-Queens problem :

Code

```c
#include< stdio. h>
# include < math. h>

int n[10];
int main ()
{
    int n;
    printf (" Enter the number of Queens )n ")
    Scanf ("-1.0", &n)
    for (int k=1; k<=n; k++)
        nqueens (k, n);
}

n Queens (int k, int n)
{
    for (int i=1; i<= n; i++)
    {
        if ( place (k, i))
        {
            x[k] = i
            if (n== n)
                print (x: 1)
            else
                nQueens (k+1, n))
        }
    }
}
```

```
int place( int k, int i )
{
    for ( int j = 1 ; j <= k-1 ; j++ )
    {
        if  [ (x[j] == i ) || ( abs (x[j] - i ) = abs (j-k) )
        {
            return 0
        }
    }
    return 1
}
```