**package** \_CHESSTABLE;

**import** java.util.Scanner;

**public** **class** Workout

{

**static** **int** *r*=1;

**static** Scanner *reader* = **new** Scanner(System.***in***);

//check that there is not another queen in index 'n'

**public** **static** **boolean** Flag(**int**[] array, **int** n) {

**for** (**int** i = 0; i < n; i++)

{

**if** (array[i] == array[n])

**return** **false**;

**if** ((array[i] - array[n]) == (n - i))

**return** **false**;

**if** ((array[n] - array[i]) == (n - i))

**return** **false**;

}

**return** **true**;

}

**public** **static** **void** printFunc(**int**[] array)

{

**int** arraylength = array.length;

**for** (**int** i = 0; i < arraylength; i++)

{

**for** (**int** k = 0; k < arraylength; k++)

{

**if** (array[i] == k) // if there is a arrayueen in array[i] print:

System.***out***.print("Q ");

**else**

System.***out***.print("\* ");

}

System.***out***.println();

}

System.***out***.println();

}

// Board Creation

**public** **static** **void** CreateBoardSize(**int**[] array, **int** k)

{

**int** n = array.length;

**if** (k == n)

{

System.***out***.println("Solution Number :"+(*r*++));

*printFunc*(array);// print the arrayueens

}

**else** {

**for** (**int** i = 0; i < n; i++) {

array[k] = i;

**if** (*Flag*(array, k))

*CreateBoardSize*(array, k+1);

}

}

}

**public** **static** **void** main(String[] args)

{

**int**[] a = **new** **int**[8];//creates array in size n=8

*CreateBoardSize*(a, 0);//Creates the chess board

}

}