```
/**********************
*Function : place *Description: Function to check whether a queen can
be placed in a specific cell
*Input parameters:*
int x[]: each row of a chess board
int k: position at which the queen has to be placed
RETURNS: true or false
************************
int place(int x[MAX], int k)
int i;
for (i = 1; i < k; i++)
if (x[i] == x[k] \mid | abs(x[i] - x[k]) == abs(i - k))
return 0;
return 1;
/**********************
*Function : placequeen - Description: Function to display the position
of the queen to be placed
*Input parameters: int n - number of queen
*RETURNS :No return value
                 *****************
void placequeen(int n)
int k, count, x[MAX], i;
k = 1;
count = 0;
x[k] = 0;
printf("\nThe different solutions are as follows");
printf("\n\ nEach solution indicates the column in which the Queen is
to be placed in different rows\n");
while (k != 0)
{
x[k] = x[k] + 1;
while ((x[k] \le n) \&\& (!place(x, k)))
x[k] = x[k] + 1;
if (x[k] \le n)
if (k == n)
count = count + 1;
printf("\n");
for (i = 1; i \le n; i++)
printf("%d\t",x[i]);
printf("\n");
}
else
k++;
x[k] = 0;
}
```

}	
else	
k;	
}	
}	
/**************	*******