```
#include<stdio.h>
              #include<conio.h>
re.
              #include<math.h>
              int a[30],count=0;
           5 int place(int pos) {
                   int i;
                   for (i=1;i<pos;i++) {
                        if((a[i]==a[pos])||((abs(a[i]-a[pos])==abs(i-pos))))
           8
           9
                            return 0;
          10
           11
                    return 1;
           12
           13 void print_sol(int n) {
           14
                    int i,j;
           15
                    count++;
                    printf("\n\nSolution #%d:\n",count);
                    for (i=1;i<=n;i++) {
                         for (j=1;j<=n;j++) {
                              if(a[i]==j)
    printf("Q\t"); else
    printf("*\t");
                         printf("\n");
                     int k=1;
a[k]=0;
while(k!=0)
```

Scanned with CamScanner

```
hare.
            25
            26 void queen(int n) {
            27
                     int k=1;
                     a[k]=0;
            28
                     while(k!=0) {
            29 -
            30
                          a[k]=a[k]+1;
                          while((a[k]<=n)&&!place(k))
            31
            32
                              a[k]++;
ns
                          if(a[k] \leftarrow n) {
             33 =
             34.
                               if(k==n)
             35
                                    print_sol(n); else {
             k++5
             37
                                    a[k]=0;
                  void main() {
                       queen(n);
printf("\nTotal solutions=%d",count);
```

```
a[k]=0;
  28
           while(k!=0) {
  30
                a[k]=a[k]+1;
while((a[k]<=n)&&!place(k))
  31
  32
Enter the number of Queens
Solution #1:
 Solution #2:
 Total solutions=2
 ...Program finished with exit code 0
```