Heaven's Light is Our Guide



Rajshahi University of Engineering and Technology Department of Computer Science and Engineering

Course No: CSE.2202

Course Title: Sessional based on CSE.2201 (Computer Algorithms)

Report On: Lab Final Problem 6

Submitted To

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makes the second of the second Complete Company of the Company of t

O Issafe (k, i)[

for (j:=1 to k-1){

if(x[j]=i) on abs (x[j]-i)=abs (j-b) then,

return false ;

ræturn true;

(ii) NQueens (Kin) {

fon (i= 1 to n) {

if (Isbafe) then {

元[汉]之道;

if (k2 m) print output;

else Naueen (k+1, m); ?

Code:

include (bits/stde++.h) wing name space std;
typeolet long long ll; int ans [53] 20; recton (int) ny;

book issafe (int m, int y, int 4m) [bool result = true; int fz 1;

fon (int k= n-1; k>0; k-){ if (anr[k] 2y) (result = false;

if ((n+y)== ann [k)+k) & y < n) { result 2 Salge;

if (y) 1 48 anorte] = (y-1)){ result 2 false; break;

```
void NQ (int a, ent &n) {
      fon ( dont dz 1; i <=n; i+t) {
         if (issafella, i, m)
                ann[a] zij
               if (azzn) {
                 eout <<"\n Solutions:" (cendl);
                for (int j=1; j(=n; j++)[
                   fon (int k = 1; K <= n; k++) {
                    if (ant j) = zk){
                          cout << " Q";
                     else { cont
                 cout Kendli;
              else (NQ(a+1, m)}
```

néturn result;

int main OfLat n;

cont $\langle "Enten N: ";$ $ein \gg n;$ if (m) = 4 { AQ(1), NQ(1, m);

neturn 0;

1

Enter N: 4

Solution:

- * Q * *
- * * * 0
- 0 * * *
- * * Q *

Solution:

- * * 0 *
- Q * * *
- * * * Q
- * 0 * *

Iteration: 75

Process returned 0 (0x0) execution time: 7.333 s
Press any key to continue.