N-QUEENS PROBLEM

```
Algorithm Place(k, i)
     for j := 1 to k-1 do
            if((x[j] = i) \text{ or } (Abs(x[j] - i) = Abs(j - k))) \text{ then}
                 return(false);
      }
     return(true);
}
Algorithm NQueen(k, n)
     for i := 1 to n do
           if Place(k, i) then
            {
                 x[k] := i;
                  if(k = n) then
                       write(x[1 : n]);
                 else
                       NQueen(k+1, n);
            }
     }
}
```