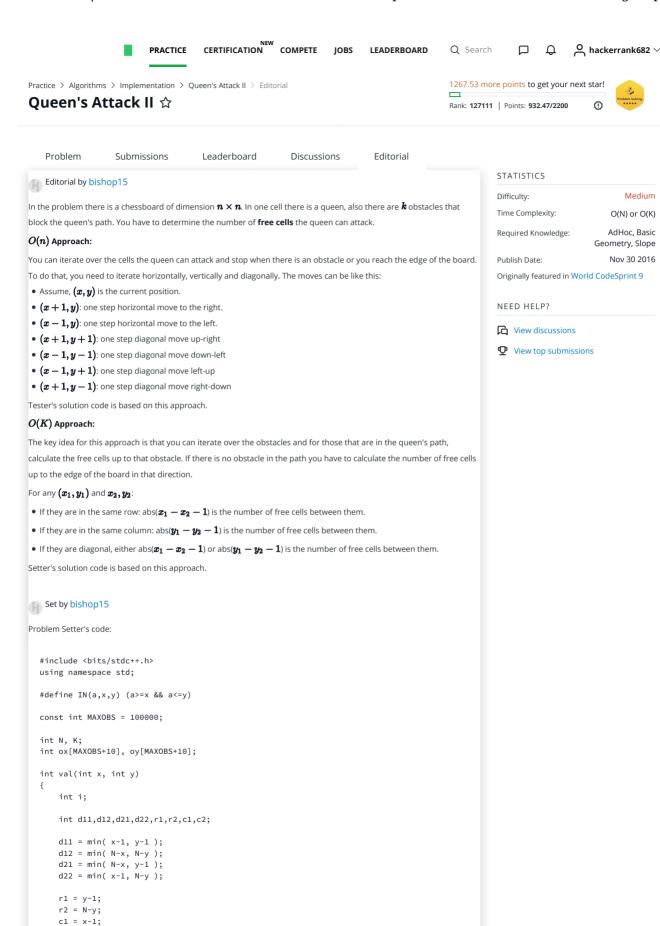
c2 = N-x; for(i=0; i<K; i++)



1 of 3 11/22/20, 12:07 AM

```
if( x>ox[i] && y>oy[i] && x-ox[i] == y-oy[i] ) d11 = min( d11, x-ox[i]-1 );
          if( ox[i]>x && oy[i]>y && ox[i]-x == oy[i]-y ) d12 = min( d12, ox[i]-x-1 );
          if( x>ox[i] && oy[i]>y && x-ox[i] == oy[i]-y ) d22 = min( d22, x-ox[i]-1 );
          if( x == ox[i] \&\& oy[i] < y ) r1 = min( r1, y-oy[i]-1 ); if( x == ox[i] \&\& oy[i] > y ) r2 = min( r2, oy[i]-y-1 );
          if( y == oy[i] && ox[i]<x ) c1 = min( c1, x-ox[i]-1 );
          if( y == oy[i] && ox[i]>x ) c2 = min( c2, ox[i]-x-1 );
      return d11 + d12 + d21 + d22 + r1 + r2 + c1 + c2;
  int main(void)
      int i,j,k,kase=0;
      int x.v:
      scanf("%d %d",&N, &K);
      scanf("%d %d",&x, &y);
      assert(IN(N.1.100000)):
      assert(IN(K,0,100000));
      for(i=0; i<K; i++)
          scanf("%d %d",&ox[i], &oy[i]);
          assert(IN(ox[i],1,N) \ \&\& \ IN(oy[i],1,N) \ \&\& \ (ox[i]!=x \ || \ oy[i]!=y));
      printf("%d\n",val(x, y));
      return 0;
   Tested by allllekssssa
Problem Tester's code:
  #include<stdio.h>
  #include<map>
  #include<iostream>
  #include<assert.h>
  using namespace std;
  map <pair<int,int>,int> mp;
  int ans.n.x.v.x1.v1.k:
  const int maxi=1e5;
  int range(int x.int v)
      return(x<=n && x>0 && y<=n && y>0);
  void check(int x,int y,int xx, int yy)
      while(range(x,y) && !mp[{x,y}])
         x+=xx:
          y+=yy;
          ans++;
  }
  int main()
      scanf("%d%d",&n,&k);
      assert(0<n && n<=maxi);
      assert(0<=k && k<=maxi);
      assert(x>0 && x<=n);
      assert(y>0 && y<=n);
      while(k--)
```

2 of 3 11/22/20, 12:07 AM

Yes

No

```
{
    scanf("%d%d",&x1,&y1);

    assert(x1!=x || y1!=y);
    assert(x1>0 && x1<=n);
    assert(y1>0 && y1<=n);

    mp[{x1,y1}]=1;
}

    check(x+1,y,1,0);
    check(x-1,y,-1,0);
    check(x,y+1,0,1);
    check(x,y+1,0,1);
    check(x+1,y+1,1,1);
    check(x+1,y+1,1,1);
    check(x-1,y+1,-1);
    check(x-1,y+1,-1);
    check(x-1,y-1,-1,-1);
    printf("%d\n",ans);
    return 0;
}

Feedback

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3 of 3 11/22/20, 12:07 AM