**Test cases**

1. **When X,Y = (0,0)**

Solution set will be [d,p,z,v,a,t,o,I,n,w,f,l,m,b,k,j,e,c,r,q,h,g,s,u,v,x] with minimum distance d=25.61 and maximum distance x=130.60

1. **When X,Y = (10,50)**

Solution set will be [o,n,I,w,t,a,I,z,k,j,d,p,m,b,v,q,h,e,g,r,f,y,u,s,x,c] with minimum distance o=11.00 and maximum distance c=93.94

1. **When X,Y = (6,33)**

Solution set will be [d,z,o,t,a,p,n,I,w,v,l,m,k,b,j,e,q,f,h,r,g,y,c,s,u,x] with minimum distance d=22.02 and maximum distance x=102.83