

Database Assignment No 3

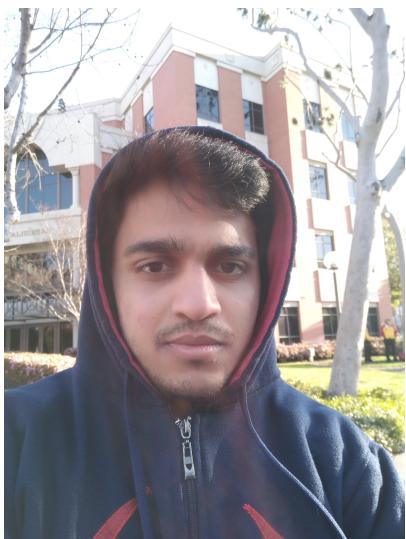
Name: Rahul Shreerang Lele

USC ID: 2483165273

Selfies on all 9 locations

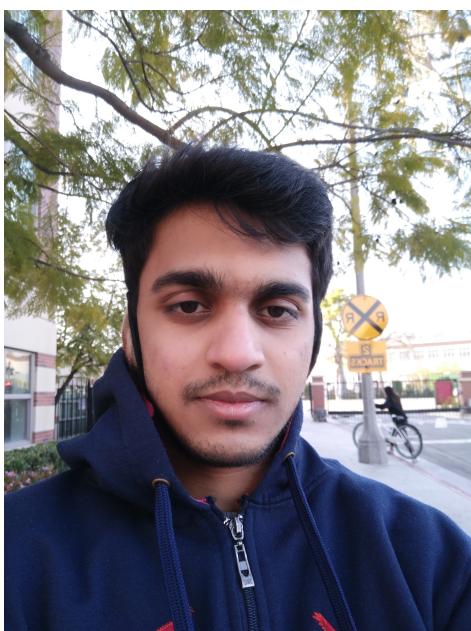
1. Downey Way Entrance

Coordinates: -118.2893872,34.0214868



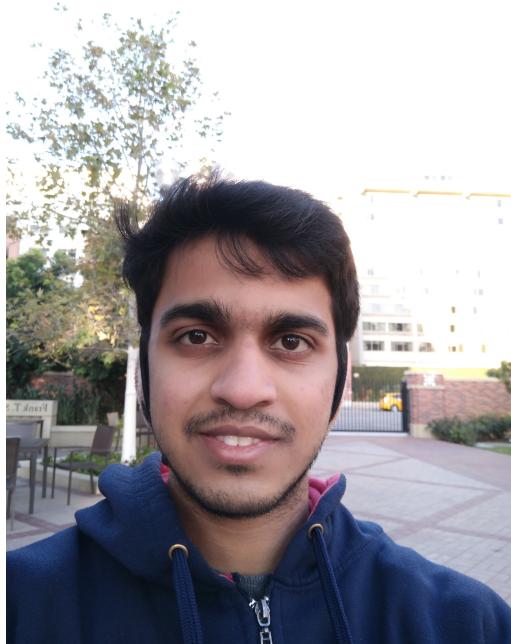
2. Exposition Blvd Entrance

Coordinates: -118.28889316699292,34.01878866455476



3. Child's Way Entrance

Coordinates: -118.2820576459425,34.019129036604205



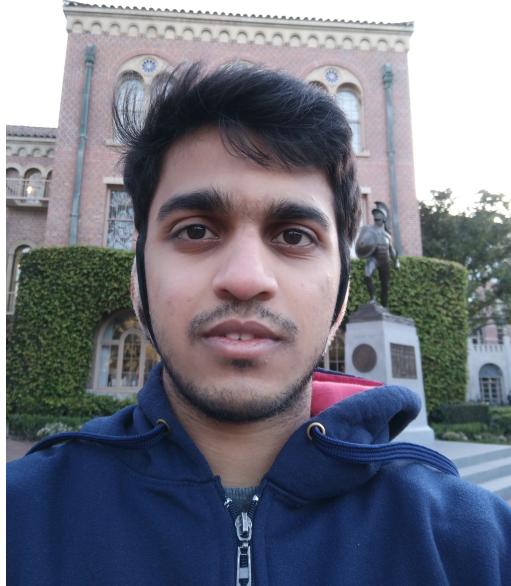
4. Leavy Library

Coordinates: -118.2824448,34.0206573



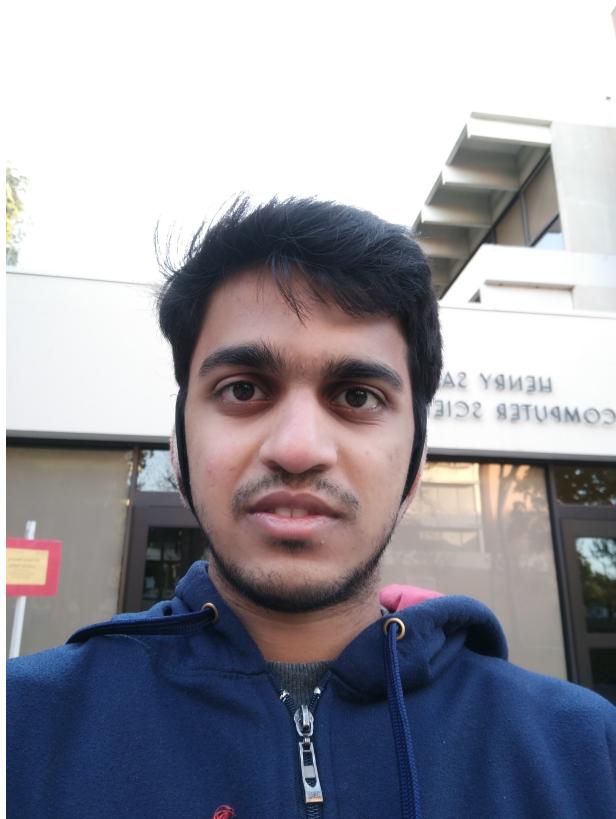
5. Tommy Trojan

Coordinates: -118.28551959559508,34.02061372842925



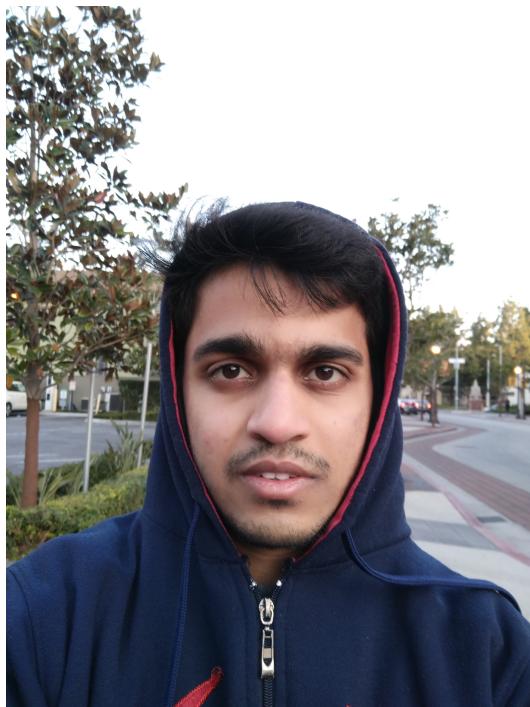
6. SAL

Coordinates: -118.28720204720075,34.020809702826945



7. McClintok Ave

Coordinates: -118.28750644830852,34.02437617599719



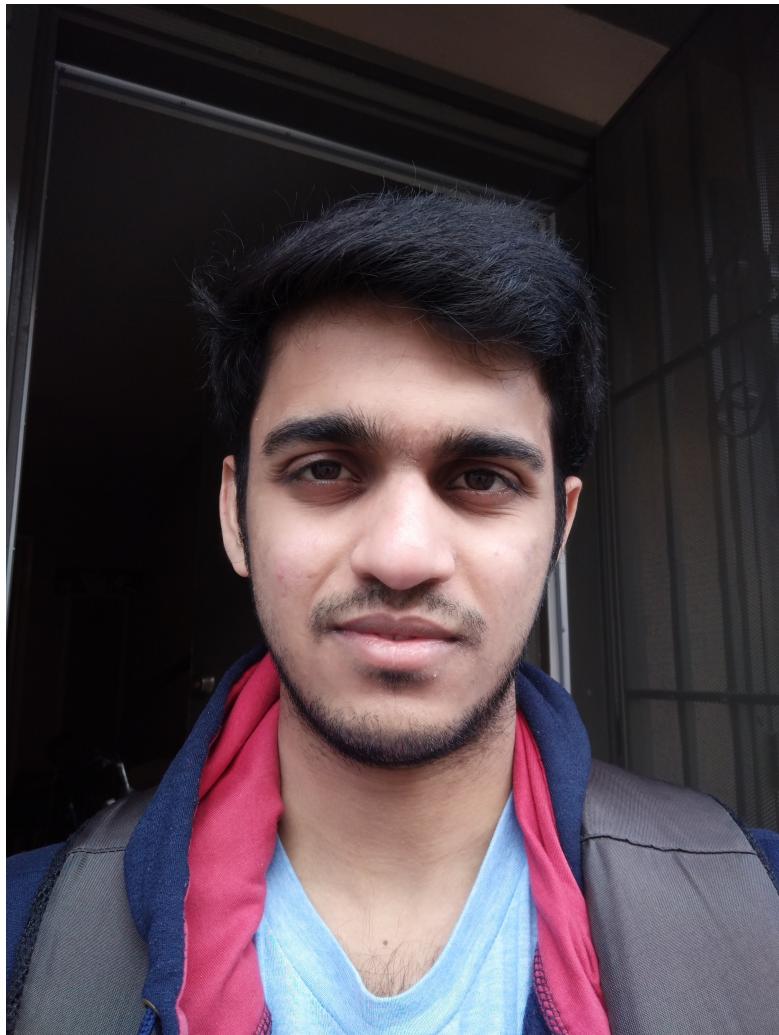
8. Annenberg School

Coordinates: -118.28590256376482,34.02245502729128



9. Residence

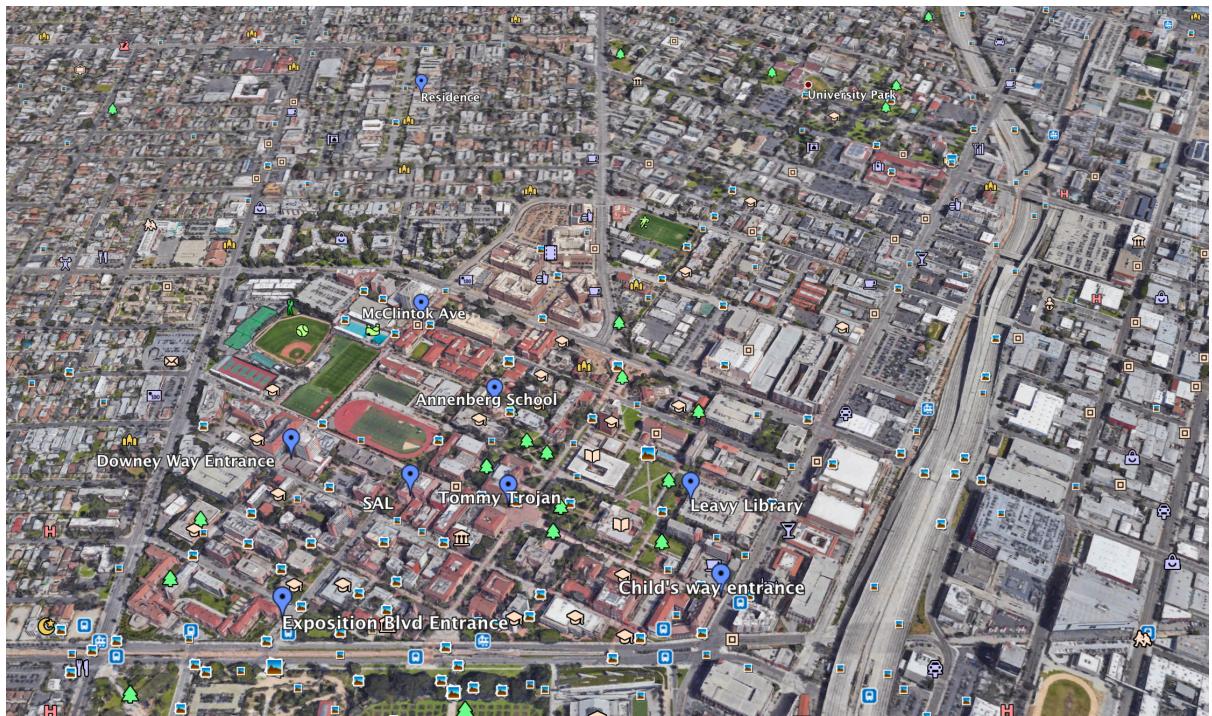
Coordinates: -118.28839,34.0308924



KML file for all 9 locations: location.kml

```
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<kml xmlns="http://earth.google.com/kml/2.0">
<Document>
<Style id="z1">
<IconStyle><Icon><href>http://www.google.com/intl/en_us/mapfiles/m
s/micons/blue-dot.png</href></Icon></IconStyle>
</Style>
<Placemark><name>Downey Way Entrance</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.2893872,34.0214868</coordinates></Point>
</Placemark>
<Placemark><name>Exposition Blvd Entrance</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.28889316699292,34.01878866455476</coordinates></Point>
</Placemark>
<Placemark><name>Child's way entrance</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.2820576459425,34.019129036604205</coordinates></Point>
</Placemark>
<Placemark><name>Leavy Library</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.2824448,34.0206573</coordinates></Point>
</Placemark>
<Placemark><name>Tommy Trojan</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.28551959559508,34.02061372842925</coordinates></Point>
</Placemark>
<Placemark><name>SAL</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.28720204720075,34.020809702826945</coordinates></Point>
</Placemark>
<Placemark><name>McClintok Ave</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.28750644830852,34.02437617599719</coordinates></Point>
```

```
</Placemark>
<Placemark><name>Annenberg School</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.28590256376482,34.02245502729128</coordinates></Point>
</Placemark>
<Placemark><name>Residence</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.28839,34.0308924</coordinates></Point>
</Placemark>
</Document></kml>
```



Constructing a convex hull

```
SELECT ST_AsText(ST_ConvexHull(
    ST_Collect(ST_GeomFromText('MULTIPOINT(-118.2893872
34.0214868,
        -118.28889316699292 34.01878866455476,
        -118.2820576459425 34.019129036604205,
        -118.2824448 34.0206573,
        -118.28551959559508 34.02061372842925,
        -118.28720204720075 34.020809702826945,
        -118.28750644830852 34.02437617599719,
        -118.28590256376482 34.02245502729128,
```

```
-118.28839 34.0308924)')  
)) );
```

Output

st_astext

```
-----  
-----  
----  
POLYGON((-118.288893166993 34.0187886645548,-118.2893872  
34.0214868,-118.28839 34.0308924,-118.2824448 34.0206573,-  
118.282057645943 34.0191290366042,-118.288893166993  
34.01878866455  
48))  
(1 row)
```

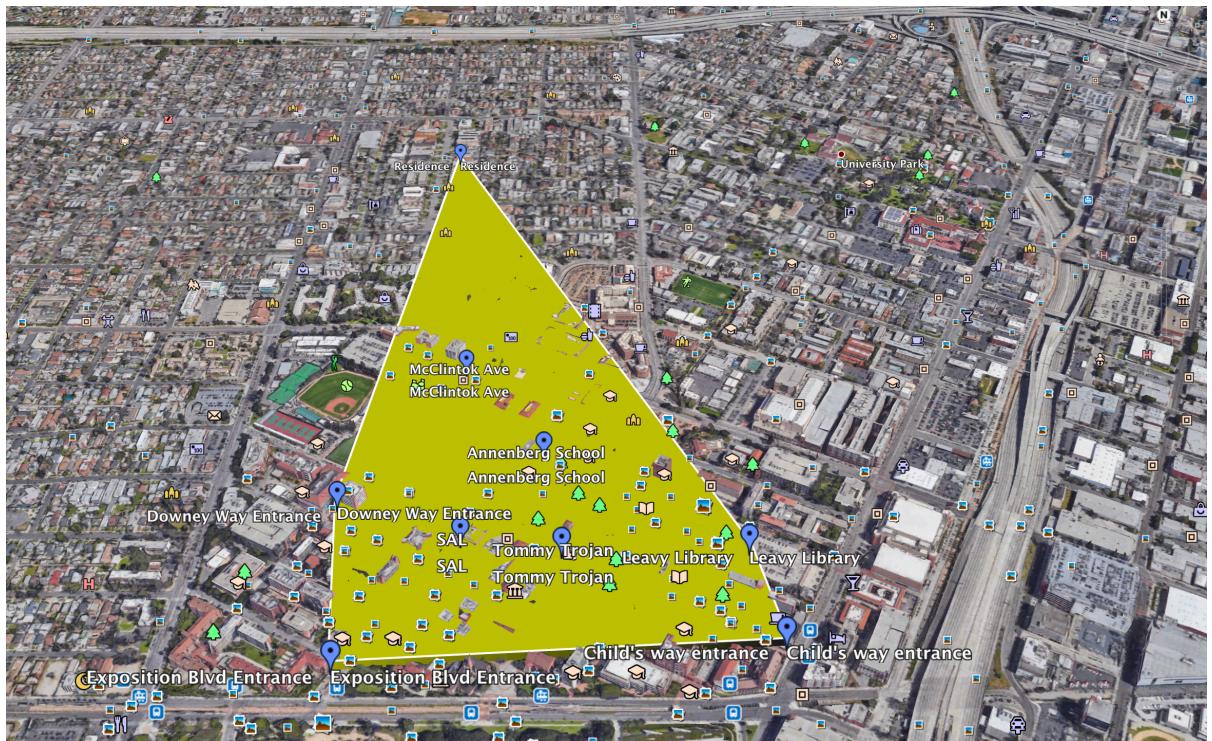
KML file for Convex Hull: Convex_hull.kml

```
<?xml version="1.0" encoding="UTF-8"?>  
<kml xmlns="http://earth.google.com/kml/2.0">  
<Document>  
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s/micons/blue-dot.png</href></Icon></IconStyle>  
</Style>  
<Style id="convex">  
<LineStyle>  
<width>2</width>  
</LineStyle>  
<PolyStyle>  
<color>ff00FFff</color>  
</PolyStyle>  
</Style>  
<Placemark><name>Downey Way Entrance</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.2893872,34.0214868</coordinates></Point>  
</Placemark>  
<Placemark><name>Exposition Blvd Entrance</name>
```

```
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28889316699292,34.01878866455476</coordinates></Point>  
</Placemark>  
<Placemark><name>Child's way entrance</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.2820576459425,34.019129036604205</coordinates></Point>  
</Placemark>  
<Placemark><name>Leavy Library</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.2824448,34.0206573</coordinates></Point>  
</Placemark>  
<Placemark><name>Tommy Trojan</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28551959559508,34.02061372842925</coordinates></Point>  
</Placemark>  
<Placemark><name>SAL</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28720204720075,34.020809702826945</coordinates></Point>  
</Placemark>  
<Placemark><name>McClintok Ave</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28750644830852,34.02437617599719</coordinates></Point>  
</Placemark>  
<Placemark><name>Annenberg School</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28590256376482,34.02245502729128</coordinates></Point>  
</Placemark>  
<Placemark><name>Residence</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28839,34.0308924</coordinates></Point>  
</Placemark>  
  
<Placemark>  
    <name>Convex Hull</name>  
    <visibility>1</visibility>  
    <styleUrl>#convex</styleUrl>  
    <Polygon>  
        <extrude>1</extrude>  
        <altitudeMode>relativeToGround</altitudeMode>  
        <outerBoundaryIs>
```

```
<LinearRing>
<coordinates>-118.288893166993,34.0187886645548,17
-118.2893872,34.0214868,17
-118.28839,34.0308924,17
-118.2824448,34.0206573,17
-118.282057645943,34.0191290366042,17
-118.288893166993,34.0187886645548,17
</coordinates>
</LinearRing>
</outerBoundaryIs>
</Polygon>
</Placemark>
```

```
</Document></kml>
```



Finding the 3 nearest neighbors

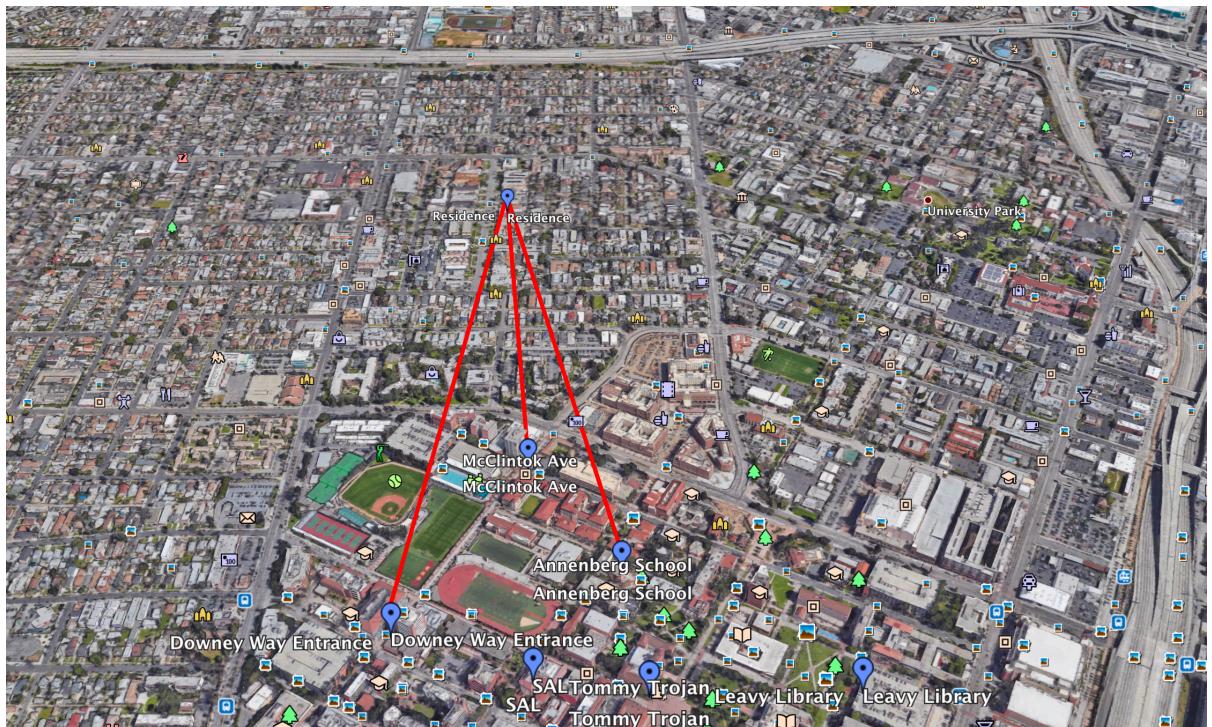
```
CREATE TABLE NEIGHBORS(
PLACE_NAME VARCHAR(500),
PLACE_COORD GEOMETRY
);

INSERT INTO NEIGHBORS VALUES
('Downey Way Entrance',ST_GEOFFROMTEXT('POINT(-118.2893872
34.0214868)'),),
('Exposition Blvd Entrance',ST_GEOFFROMTEXT('POINT(-
118.28889316699292 34.01878866455476)'),),
('Childs way entrance',ST_GEOFFROMTEXT('POINT(-
118.2820576459425 34.019129036604205)'),),
('Leavy Library',ST_GEOFFROMTEXT('POINT(-118.2824448
34.0206573)'),),
('Tommy Trojan',ST_GEOFFROMTEXT('POINT(-118.28551959559508
34.02061372842925)'),),
('SAL',ST_GEOFFROMTEXT('POINT(-118.28720204720075
34.020809702826945)'),),
('McClintok Ave',ST_GEOFFROMTEXT('POINT(-118.28750644830852
34.02437617599719)'),),
('Annenberg School',ST_GEOFFROMTEXT('POINT(-118.28590256376482
34.02245502729128)'),),
('Residence',ST_GEOFFROMTEXT('POINT(-118.28839 34.0308924)'));

SELECT NBR.PLACE_NAME, ST_ASTEXT(SOURCE.PLACE_COORD) AS
RESIDENCE, ST_ASTEXT(NBR.PLACE_COORD) AS NEIGHBR
FROM NEIGHBORS NBR, NEIGHBORS SOURCE
WHERE SOURCE.PLACE_NAME='Residence' AND
NBR.PLACE_NAME<>'Residence'
ORDER BY ST_DISTANCE(SOURCE.PLACE_COORD,NBR.PLACE_COORD)
LIMIT 3;
```

Output

place_name		residence		neighbr
-----+-----+-----+-----+				
McClintok Ave		POINT(-118.28839 34.0308924)		POINT(-118.287506448309 34.0243761759972)
Annenberg School		POINT(-118.28839 34.0308924)		POINT(-118.285902563765 34.0224550272913)
Downey Way Entrance		POINT(-118.28839 34.0308924)		POINT(-118.2893872 34.0214868)
(3 rows)				

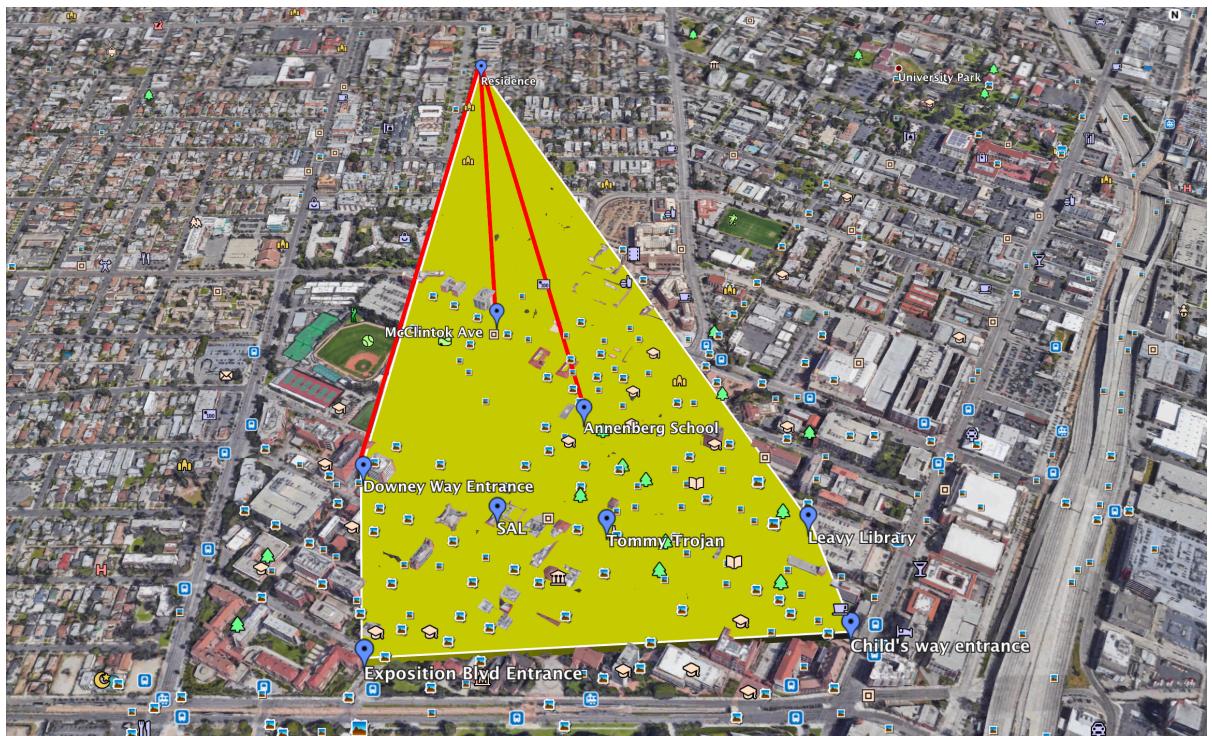


All 9 locations + convex hull + nearest neighbor: places.kml

```
<?xml version="1.0" encoding="UTF-8"?>
<kml xmlns="http://earth.google.com/kml/2.0">
<Document>
<Style id="z1">
<IconStyle><Icon><href>http://www.google.com/intl/en_us/mapfiles/m
s/micons/blue-dot.png</href></Icon></IconStyle>
</Style>
<Style id="convex">
<LineStyle>
<width>2</width>
</LineStyle>
<PolyStyle>
<color>ff00FFff</color>
</PolyStyle>
</Style>
<Style id="nn">
<LineStyle>
<color>ff0000ff</color>
<width>4</width>
</LineStyle>
</Style>
</Style>
<Placemark><name>Downey Way Entrance</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.2893872,34.0214868</coordinates></Point>
</Placemark>
<Placemark><name>Exposition Blvd Entrance</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.28889316699292,34.01878866455476</coordinates></Point>
</Placemark>
<Placemark><name>Child's way entrance</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.2820576459425,34.019129036604205</coordinates></Point>
</Placemark>
<Placemark><name>Leavy Library</name>
<styleUrl>#z1</styleUrl><Point><coordinates>-
118.2824448,34.0206573</coordinates></Point>
</Placemark>
<Placemark><name>Tommy Trojan</name>
```

```
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28551959559508,34.02061372842925</coordinates></Point>  
</Placemark>  
<Placemark><name>SAL</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28720204720075,34.020809702826945</coordinates></Point>  
</Placemark>  
<Placemark><name>McClintok Ave</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28750644830852,34.02437617599719</coordinates></Point>  
</Placemark>  
<Placemark><name>Annenberg School</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28590256376482,34.02245502729128</coordinates></Point>  
</Placemark>  
<Placemark><name>Residence</name>  
<styleUrl>#z1</styleUrl><Point><coordinates>-  
118.28839,34.0308924</coordinates></Point>  
</Placemark>  
  
<Placemark>  
    <name>Convex Hull</name>  
    <visibility>1</visibility>  
    <styleUrl>#convex</styleUrl>  
    <Polygon>  
        <extrude>1</extrude>  
        <altitudeMode>relativeToGround</altitudeMode>  
        <outerBoundaryIs>  
            <LinearRing>  
                <coordinates>-118.288893166993,34.0187886645548,17  
                -118.2893872,34.0214868,17  
                -118.28839,34.0308924,17  
                -118.2824448,34.0206573,17  
                -118.282057645943,34.0191290366042,17  
                -118.288893166993,34.0187886645548,17  
                </coordinates>  
            </LinearRing>  
        </outerBoundaryIs>  
    </Polygon>  
</Placemark>
```

```
<Placemark>
  <name> Nearest Neighbour</name>
  <styleUrl>#nn</styleUrl>
  <LineString>
    <altitudeMode>absolute</altitudeMode>
    <coordinates>
      -118.28839,34.0308924,90
      -118.287506448309,34.0243761759972,90
      -118.28839,34.0308924,90
      -118.285902563765,34.0224550272913,90
      -118.28839,34.0308924,90
      -118.2893872,34.0214868,90
    </coordinates>
  </LineString>
</Placemark>
</Document></kml>
```



Bonus Question: Spirograph

Spiral.html file

```
<html>
<canvas id="spiro"></canvas>
<script>
var xstart=-118.28917480000001;
var ystart=34.0212361;
var canvas=document.getElementById("spiro");
var ctx = canvas.getContext('2d');

if(canvas.getContext){

var R=8,r=1,a=4;
var x0=R+r, y0=0;
ctx.moveTo(150+10*x0,150+10*y0);

var cos=Math.cos, sin=Math.sin, pi=Math.PI, nRev=16;
for(var t=0.0;t<(pi*nRev);t+=0.01){
  var x=(R+r)*cos((r/R)*t) - a*cos((1+r/R)*t);
  var y=(R+r)*sin((r/R)*t) - a*sin((1+r/R)*t);

  var tempx=xstart+x;
  var tempy=ystart+y;

  ctx.lineTo(150+10*x,150+10*y);

  document.write(tempx+","+tempy+",");
  document.write("<br/>");

}
ctx.stroke();
}

</script>
</html>
```

spiral.kml file

```
<?xml version="1.0" encoding="UTF-8"?>
<kml xmlns="http://www.opengis.net/kml/2.2"
      xmlns:gx="http://www.google.com/kml/ext/2.2"
      xmlns:kml="http://www.opengis.net/kml/2.2"
      xmlns:atom="http://www.w3.org/2005/Atom">
  <Document>
    <Style id="spiral">
      <LineStyle>
        <color>ff00FFff</color>
        <width>4</width>
      </LineStyle>
    </Style>
    <Style id="z1">
      <IconStyle>
        <Icon>
          <href>http://www.google.com/intl/en_us/mapfiles/ms/micons/blue-dot.png</href>
        </Icon>
      </IconStyle>
    </Style>
    <Placemark>
      <name>SGM</name>
      <styleUrl>#z1</styleUrl>
      <Point>
        <coordinates>-118.28917480000001,34.0212361,0</coordinates>
      </Point>
    </Placemark>
    <Placemark>
      <name>spirograph</name>
      <styleUrl>#spiral</styleUrl>
      <LineString>
        <altitudeMode>absolute</altitudeMode>
        <coordinates> -113.28917480000001,34.0212361,
-113.28892870891876,33.98748704628306,
-113.2881904676995,33.953743670120296,
-113.28696017241154,33.92001164834514,
```

-113.285237983157,33.88629665634959,
-113.28302412405043,33.852604367363774,
-113.2803188831904,33.81894045173567,
-113.27712261262317,33.78531057621133,
-113.273435728298,33.75172040321546,
-113.26925871001451,33.718175590132596,
-113.26459210136197,33.684681788588875,
-113.25943650965046,33.65124464373461,
-113.25379260583397,33.61786979352756,
-113.24766112442548,33.58456286801728,
-113.24104286340395,33.5513294886303,
-113.23393868411327,33.51817526745652,
-113.2263495111533,33.4851058065367,
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-113.20068222258014,33.38646184004659,
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-113.1811655148007,33.321225184243026,
-113.17068932299668,33.28878127552112,
-113.15973637004947,33.25646100040567,
-113.14830808172269,33.22426985506714,
-113.13640594569603,33.192213319282594,
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-112.7135335427122,32.47713158601749,
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-112.49109095165416,32.24446574521087,
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-112.40983581153516,32.17225914669781,
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-112.35377171405234,32.125712528833475,
-112.32518235984001,32.10292965783666,
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-112.20719715922581,32.01516725096814,
-112.17681315821882,31.994089810190026,
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-112.11500751196957,31.95299935627405,
-112.08359393469905,31.93299434530153,
-112.05184530811181,31.913354736926898,
-112.01976577761666,31.894084417226082,
-111.98735953225253,31.875187225377243,
-111.954630804158,31.856666953172674,
-111.92158386803555,31.838527344536732,
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-111.85455268008339,31.80340485147843,
-111.82057718558043,31.78642921131152,
-111.78630099659428,31.76984872230293,
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-111.716864491603,31.737887137399852,

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-111.53832936071609,31.665136893132495,
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-111.46503581020319,31.638966314176614,
-111.42800532105412,31.626521207160607,
-111.39072547182099,31.61450686965084,
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