

## **Submitted Code**

```
Language: Python 3
                                                                                                                                                                                                     P Open in editor
 1 from math import radians, cos, sin, asin, sqrt from datetime import datetime
 3 import math
          naversine(lon1, lat1, lon2, lat2):
lon1, lat1, lon2, lat2 = map(radians, [lon1, lat1, lon2, lat2])
dlon = lon2 - lon1
dlat = lat2 - lat1
a = sin(dlat/2)**2 + cos(lat1) * cos(lat2) * sin(dlon/2)**2
c = 2 * asin(sqrt(a))
r = 6378.137
return c * r
 6 def haversine(lon1, lat1, lon2, lat2):
11
12
13
            return c * r
15 lati, longi = map(float, input().split(","))
16 radius = float(input())
17 input()
18 date_format = "%m/%d/%Y %H:%M"
19 users = {}
20 try:
           while True:
   data = input().split(",")
21
22
23
24
                 new_date = datetime.strptime(data[0], date_format)
phone = data[3]
25
                  if phone in users:
                        old_date = datetime.strptime(users[phone][0], date_format)
if new_date > old_date:
    users[phone] = data
26
27
28
29
                  else:
                        users[phone] = data
31 except EOFError:
          pass
33 near_users = []
34 for phone, data in users.items():
35 latf = float(data[1])
36 longf = float(data[2])
           distance = haversine(longi, lati, longf, latf)
38    if distance <= radius:
39         near_users.append(phone)
40 print(",".join(sorted(near_users)))</pre>
```

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