

```

1  #!/bin/python
2
3  import csv
4  import re
5
6  # open up `hospitals_temp.csv` and write to `hospitals_info.csv`
7  with open('hospitals_temp.csv', 'rb') as infile, open('hospitals_info.csv', 'wb') as
  outfile:
8
9      reader = csv.reader(infile)
10
11     # skip header in `hospitals_temp.csv`
12     next(reader, None)
13
14     writer = csv.writer(outfile, delimiter=',', quoting=csv.QUOTE_MINIMAL)
15
16     # here's a better header
17     writer.writerow(['Provider ID', 'Hospital Name', 'Address', 'City', 'State', 'ZIP
  Code', 'lat', 'lng'])
18
19     for row in reader:
20         provider_id = row[0]
21         name = row[1]
22         street = row[2]
23         city = row[3]
24         state = row[4]
25         zip_code = row[5]
26         location = row[6]
27
28         # `match` looks for a Latitude and Longitude. Considering
29         # the geography of the U.S. (and most of its territories),
30         # the first number will always be positive (north), while
31         # the second number will always be negative (west) (except
32         # for some islands in Alaska that don't have hospitals).
33         match = re.search( r'\d*\.\d*, .\d*\.\d*', location )
34
35         if match:
36             # if we get a match, then split the match by the comma, and write a row in the
  new csv
37             point_string = match.group()
38             point_array = [n.strip() for n in point_string.split(',')]
39
40             writer.writerow([provider_id,name,street,city,state,zip_code,point_array[0],point_array[1
  ]])
41         else:
42             # all the csvs will match, so this case will never happen
43             writer.writerow([provider_id,name,street,city,state,zip_code,'NA','NA'])

```