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from bs4 import BeautifulSoup
import requests
import spotipy
from spotipy.oauth2 import SpotifyOAuth

# Scraping Billboard 100
date = input("Which year do you want to travel to? Type the date in this format YYYY-MM-DD: ")
response = requests.get("https://www.billboard.com/charts/hot-100/" + date)
soup = BeautifulSoup(response.text, 'html.parser')
song_names_spans = soup.find_all("span", class_="chart-element__information__song")
song_names = [song.getText() for song in song_names_spans]

#Spotify Authentication
sp = spotipy.Spotify(
    auth_manager=SpotifyOAuth(
        scope="playlist-modify-private",
        redirect_uri="http://example.com",
        client_id=YOUR CLIENT ID,
        client_secret=YOUR CLIENT SECRET,
        show_dialog=True,
        cache_path="token.txt"
    )
)
user_id = sp.current_user()["id"]
print(user_id)

#Searching Spotify for songs by title
song_uris = []
year = date.split("-")[0]
for song in song_names:
    result = sp.search(q=f"track:{song} year:{year}", type="track")
    print(result)
    try:
        uri = result["tracks"]["items"][0]["uri"]
        song_uris.append(uri)
    except IndexError:
```

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37          print(f"{song} doesn't exist in Spotify.
    Skipped.")
38
39 #Creating a new private playlist in Spotify
40 playlist = sp.user_playlist_create(user=user_id, name
    =f"{date} Billboard 100", public=False)
41 print(playlist)
42
43 #Adding songs found into the new playlist
44 sp.playlist_add_items(playlist_id=playlist["id"],
    items=song_uris)
```