

yy1hy0iyc

May 24, 2024

## 1 Install Selenium

```
[ ]: %%shell
# Ubuntu no longer distributes chromium-browser outside of snap
#
# Proposed solution: https://askubuntu.com/questions/1204571/how-to-install-chromium-without-snap

# Add debian buster
cat > /etc/apt/sources.list.d/debian.list <<'EOF'
deb [arch=amd64 signed-by=/usr/share/keyrings/debian-buster.gpg] http://deb.
↳debian.org/debian buster main
deb [arch=amd64 signed-by=/usr/share/keyrings/debian-buster-updates.gpg] http://
↳deb.debian.org/debian buster-updates main
deb [arch=amd64 signed-by=/usr/share/keyrings/debian-security-buster.gpg] http:/
↳deb.debian.org/debian-security buster/updates main
EOF

# Add keys
apt-key adv --keyserver keyserver.ubuntu.com --recv-keys DCC9EFBF77E11517
apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 648ACFD622F3D138
apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 112695A0E562B32A

apt-key export 77E11517 | gpg --dearmor -o /usr/share/keyrings/debian-buster.
↳gpg
apt-key export 22F3D138 | gpg --dearmor -o /usr/share/keyrings/
↳debian-buster-updates.gpg
apt-key export E562B32A | gpg --dearmor -o /usr/share/keyrings/
↳debian-security-buster.gpg

# Prefer debian repo for chromium* packages only
# Note the double-blank lines between entries
cat > /etc/apt/preferences.d/chromium.pref << 'EOF'
Package: *
Pin: release a=eoan
Pin-Priority: 500
```

```
Package: *
Pin: origin "deb.debian.org"
Pin-Priority: 300
```

```
Package: chromium*
Pin: origin "deb.debian.org"
Pin-Priority: 700
EOF
```

Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).

Executing: /tmp/apt-key-gpghome.iTWCDNjUJN/gpg.1.sh --keyserver  
keyserver.ubuntu.com --recv-keys DCC9EFBF77E11517

gpg: key DCC9EFBF77E11517: public key "Debian Stable Release Key (10/buster)  
<debian-release@lists.debian.org>" imported

gpg: Total number processed: 1

gpg: imported: 1

Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).

Executing: /tmp/apt-key-gpghome.fTypCbcLk2/gpg.1.sh --keyserver  
keyserver.ubuntu.com --recv-keys 648ACFD622F3D138

gpg: key DC30D7C23CBBABEE: public key "Debian Archive Automatic Signing Key  
(10/buster) <ftpmaster@debian.org>" imported

gpg: Total number processed: 1

gpg: imported: 1

Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).

Executing: /tmp/apt-key-gpghome.spGqlyhrQs/gpg.1.sh --keyserver  
keyserver.ubuntu.com --recv-keys 112695A0E562B32A

gpg: key 4DFAB270CAA96DFA: public key "Debian Security Archive Automatic Signing  
Key (10/buster) <ftpmaster@debian.org>" imported

gpg: Total number processed: 1

gpg: imported: 1

Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).

Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).

Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).

[ ]:

```
[ ]: !apt-get update
      !apt-get install chromium chromium-driver
      !pip3 install selenium
```

```

Get:1 http://deb.debian.org/debian buster InRelease [122 kB]
Get:2 http://deb.debian.org/debian buster-updates InRelease [56.6 kB]
Get:3 http://deb.debian.org/debian-security buster/updates InRelease [34.8 kB]
Get:4 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64
InRelease [1,581 B]
Get:5 https://cloud.r-project.org/bin/linux/ubuntu jammy-cran40/ InRelease
[3,626 B]
Get:6 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Hit:7 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:8 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:9 http://deb.debian.org/debian buster/main amd64 Packages [10.7 MB]
Hit:10 https://ppa.launchpadcontent.net/c2d4u.team/c2d4u4.0+/ubuntu jammy
InRelease
Hit:11 http://archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:12 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy InRelease
[18.1 kB]
Get:13 http://deb.debian.org/debian buster-updates/main amd64 Packages [9,745 B]
Hit:14 https://ppa.launchpadcontent.net/graphics-drivers/ppa/ubuntu jammy
InRelease
Hit:15 https://ppa.launchpadcontent.net/ubuntugis/ppa/ubuntu jammy InRelease
Get:16 http://deb.debian.org/debian-security buster/updates/main amd64 Packages
[775 kB]
Get:17
https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64
Packages [808 kB]
Get:18 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages
[1,695 kB]
Get:19 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1,974
kB]
Get:20 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages
[1,082 kB]
Get:21 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages
[1,375 kB]
Get:22 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy/main amd64
Packages [27.8 kB]
Fetched 19.0 MB in 8s (2,304 kB/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  chromium-common chromium-sandbox libevent-2.1-6 libfontenc1 libgudev-1.0-0
  libicu63
  libimobiledevice6 libjpeg62-turbo libjsoncpp1 libplist3 libre2-5 libu2f-udev
  libudev1
  libupower-glib3 libusbmuxd6 libvpx5 libwebp6 libxkbfile1 libxtst6 libxxf86dga1
  notification-daemon systemd-hwe-hwdb udev upower usbmuxd x11-utils
Suggested packages:

```

```

    chromium-l10n chromium-shell libusbmuxd-tools mesa-utils
The following NEW packages will be installed:
    chromium chromium-common chromium-driver chromium-sandbox libevent-2.1-6
libfontenc1
    libgudev-1.0-0 libicu63 libimobiledevice6 libjpeg62-turbo libjsoncpp1
libplist3 libre2-5
    libu2f-udev libupower-glib3 libusbmuxd6 libvpx5 libwebp6 libxkbfile1 libxtst6
libxxf86dga1
    notification-daemon systemd-hwe-hwdb udev upower usbmuxd x11-utils
The following packages will be upgraded:
    libudev1
1 upgraded, 27 newly installed, 0 to remove and 44 not upgraded.
Need to get 76.8 MB of archives.
After this operation, 267 MB of additional disk space will be used.
Get:1 http://deb.debian.org/debian buster/main amd64 libevent-2.1-6 amd64
2.1.8-stable-4 [177 kB]
Get:2 http://deb.debian.org/debian buster/main amd64 libicu63 amd64
63.1-6+deb10u3 [8,293 kB]
Get:3 http://deb.debian.org/debian buster/main amd64 libjpeg62-turbo amd64
1:1.5.2-2+deb10u1 [133 kB]
Get:4 http://deb.debian.org/debian buster/main amd64 libjsoncpp1 amd64 1.7.4-3
[75.6 kB]
Get:5 http://deb.debian.org/debian buster/main amd64 libre2-5 amd64
20190101+dfsg-2 [161 kB]
Get:6 http://deb.debian.org/debian-security buster/updates/main amd64 libvpx5
amd64 1.7.0-3+deb10u2 [800 kB]
Get:7 http://deb.debian.org/debian-security buster/updates/main amd64 libwebp6
amd64 0.6.1-2+deb10u3 [263 kB]
Get:8 http://deb.debian.org/debian buster/main amd64 chromium-common amd64
90.0.4430.212-1~deb10u1 [1,423 kB]
Get:9 http://deb.debian.org/debian buster/main amd64 chromium amd64
90.0.4430.212-1~deb10u1 [58.3 MB]
Get:10 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libudev1 amd64
249.11-0ubuntu3.12 [78.2 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 udev amd64
249.11-0ubuntu3.12 [1,557 kB]
Get:12 http://deb.debian.org/debian buster/main amd64 chromium-driver amd64
90.0.4430.212-1~deb10u1 [4,703 kB]
Get:13 http://deb.debian.org/debian buster/main amd64 chromium-sandbox amd64
90.0.4430.212-1~deb10u1 [146 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy/main amd64 libfontenc1 amd64
1:1.1.4-1build3 [14.7 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy/main amd64 libxkbfile1 amd64
1:1.1.0-1build3 [71.8 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy/main amd64 libxtst6 amd64
2:1.2.3-1build4 [13.4 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy/main amd64 libxxf86dga1 amd64
2:1.1.5-0ubuntu3 [12.6 kB]

```

```

Get:18 http://archive.ubuntu.com/ubuntu jammy/main amd64 x11-utils amd64
7.7+5build2 [206 kB]
Get:19 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgudev-1.0-0 amd64
1:237-2build1 [16.3 kB]
Get:20 http://archive.ubuntu.com/ubuntu jammy/main amd64 libplist3 amd64
2.2.0-6build2 [32.1 kB]
Get:21 http://archive.ubuntu.com/ubuntu jammy/main amd64 libusbmuxd6 amd64
2.0.2-3build2 [20.4 kB]
Get:22 http://archive.ubuntu.com/ubuntu jammy/main amd64 libimobiledevice6 amd64
1.3.0-6build3 [71.1 kB]
Get:23 http://archive.ubuntu.com/ubuntu jammy/main amd64 libu2f-udev all
1.1.10-3build2 [4,190 B]
Get:24 http://archive.ubuntu.com/ubuntu jammy/main amd64 libupower-glib3 amd64
0.99.17-1 [46.7 kB]
Get:25 http://archive.ubuntu.com/ubuntu jammy/universe amd64 notification-daemon
amd64 3.20.0-4build1 [57.6 kB]
Get:26 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 systemd-hwe-
hwdb all 249.11.5 [3,228 B]
Get:27 http://archive.ubuntu.com/ubuntu jammy/main amd64 upower amd64 0.99.17-1
[86.7 kB]
Get:28 http://archive.ubuntu.com/ubuntu jammy/main amd64 usbmuxd amd64
1.1.1-2build2 [42.8 kB]
Fetched 76.8 MB in 3s (29.3 MB/s)
(Reading database ... 121752 files and directories currently installed.)
Preparing to unpack .../libudev1_249.11-0ubuntu3.12_amd64.deb ...
Unpacking libudev1:amd64 (249.11-0ubuntu3.12) over (249.11-0ubuntu3.10) ...
Setting up libudev1:amd64 (249.11-0ubuntu3.12) ...
Selecting previously unselected package udev.
(Reading database ... 121752 files and directories currently installed.)
Preparing to unpack .../00-udev_249.11-0ubuntu3.12_amd64.deb ...
Unpacking udev (249.11-0ubuntu3.12) ...
Selecting previously unselected package libevent-2.1-6:amd64.
Preparing to unpack .../01-libevent-2.1-6_2.1.8-stable-4_amd64.deb ...
Unpacking libevent-2.1-6:amd64 (2.1.8-stable-4) ...
Selecting previously unselected package libicu63:amd64.
Preparing to unpack .../02-libicu63_63.1-6+deb10u3_amd64.deb ...
Unpacking libicu63:amd64 (63.1-6+deb10u3) ...
Selecting previously unselected package libjpeg62-turbo:amd64.
Preparing to unpack .../03-libjpeg62-turbo_1%3a1.5.2-2+deb10u1_amd64.deb ...
Unpacking libjpeg62-turbo:amd64 (1:1.5.2-2+deb10u1) ...
Selecting previously unselected package libjsoncpp1:amd64.
Preparing to unpack .../04-libjsoncpp1_1.7.4-3_amd64.deb ...
Unpacking libjsoncpp1:amd64 (1.7.4-3) ...
Selecting previously unselected package libre2-5:amd64.
Preparing to unpack .../05-libre2-5_20190101+dfsg-2_amd64.deb ...
Unpacking libre2-5:amd64 (20190101+dfsg-2) ...
Selecting previously unselected package libvpx5:amd64.
Preparing to unpack .../06-libvpx5_1.7.0-3+deb10u2_amd64.deb ...

```

```

Unpacking libvpx5:amd64 (1.7.0-3+deb10u2) ...
Selecting previously unselected package libwebp6:amd64.
Preparing to unpack .../07-libwebp6_0.6.1-2+deb10u3_amd64.deb ...
Unpacking libwebp6:amd64 (0.6.1-2+deb10u3) ...
Selecting previously unselected package libfontenc1:amd64.
Preparing to unpack .../08-libfontenc1_1%3a1.1.4-1build3_amd64.deb ...
Unpacking libfontenc1:amd64 (1:1.1.4-1build3) ...
Selecting previously unselected package libxkbfile1:amd64.
Preparing to unpack .../09-libxkbfile1_1%3a1.1.0-1build3_amd64.deb ...
Unpacking libxkbfile1:amd64 (1:1.1.0-1build3) ...
Selecting previously unselected package libxtst6:amd64.
Preparing to unpack .../10-libxtst6_2%3a1.2.3-1build4_amd64.deb ...
Unpacking libxtst6:amd64 (2:1.2.3-1build4) ...
Selecting previously unselected package libxxf86dga1:amd64.
Preparing to unpack .../11-libxxf86dga1_2%3a1.1.5-0ubuntu3_amd64.deb ...
Unpacking libxxf86dga1:amd64 (2:1.1.5-0ubuntu3) ...
Selecting previously unselected package x11-utils.
Preparing to unpack .../12-x11-utils_7.7+5build2_amd64.deb ...
Unpacking x11-utils (7.7+5build2) ...
Selecting previously unselected package chromium-common.
Preparing to unpack .../13-chromium-common_90.0.4430.212-1~deb10u1_amd64.deb ...
Unpacking chromium-common (90.0.4430.212-1~deb10u1) ...
Selecting previously unselected package chromium.
Preparing to unpack .../14-chromium_90.0.4430.212-1~deb10u1_amd64.deb ...
Unpacking chromium (90.0.4430.212-1~deb10u1) ...
Selecting previously unselected package chromium-driver.
Preparing to unpack .../15-chromium-driver_90.0.4430.212-1~deb10u1_amd64.deb ...
Unpacking chromium-driver (90.0.4430.212-1~deb10u1) ...
Selecting previously unselected package chromium-sandbox.
Preparing to unpack .../16-chromium-sandbox_90.0.4430.212-1~deb10u1_amd64.deb
...
Unpacking chromium-sandbox (90.0.4430.212-1~deb10u1) ...
Selecting previously unselected package libgudev-1.0-0:amd64.
Preparing to unpack .../17-libgudev-1.0-0_1%3a237-2build1_amd64.deb ...
Unpacking libgudev-1.0-0:amd64 (1:237-2build1) ...
Selecting previously unselected package libplist3:amd64.
Preparing to unpack .../18-libplist3_2.2.0-6build2_amd64.deb ...
Unpacking libplist3:amd64 (2.2.0-6build2) ...
Selecting previously unselected package libusbmuxd6:amd64.
Preparing to unpack .../19-libusbmuxd6_2.0.2-3build2_amd64.deb ...
Unpacking libusbmuxd6:amd64 (2.0.2-3build2) ...
Selecting previously unselected package libimobiledevice6:amd64.
Preparing to unpack .../20-libimobiledevice6_1.3.0-6build3_amd64.deb ...
Unpacking libimobiledevice6:amd64 (1.3.0-6build3) ...
Selecting previously unselected package libu2f-udev.
Preparing to unpack .../21-libu2f-udev_1.1.10-3build2_all.deb ...
Unpacking libu2f-udev (1.1.10-3build2) ...
Selecting previously unselected package libupower-glib3:amd64.

```

```

Preparing to unpack .../22-libupower-glib3_0.99.17-1_amd64.deb ...
Unpacking libupower-glib3:amd64 (0.99.17-1) ...
Selecting previously unselected package notification-daemon.
Preparing to unpack .../23-notification-daemon_3.20.0-4build1_amd64.deb ...
Unpacking notification-daemon (3.20.0-4build1) ...
Selecting previously unselected package systemd-hwe-hwdb.
Preparing to unpack .../24-systemd-hwe-hwdb_249.11.5_all.deb ...
Unpacking systemd-hwe-hwdb (249.11.5) ...
Selecting previously unselected package upower.
Preparing to unpack .../25-upower_0.99.17-1_amd64.deb ...
Unpacking upower (0.99.17-1) ...
Selecting previously unselected package usbmuxd.
Preparing to unpack .../26-usbmuxd_1.1.1-2build2_amd64.deb ...
Unpacking usbmuxd (1.1.1-2build2) ...
Setting up libplist3:amd64 (2.2.0-6build2) ...
Setting up libxtst6:amd64 (2:1.2.3-1build4) ...
Setting up libxxf86dga1:amd64 (2:1.1.5-0ubuntu3) ...
Setting up chromium-sandbox (90.0.4430.212-1~deb10u1) ...
Setting up libicu63:amd64 (63.1-6+deb10u3) ...
Setting up notification-daemon (3.20.0-4build1) ...
Setting up libfontenc1:amd64 (1:1.1.4-1build3) ...
Setting up libjpeg62-turbo:amd64 (1:1.5.2-2+deb10u1) ...
Setting up udev (249.11-0ubuntu3.12) ...
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Setting up libwebp6:amd64 (0.6.1-2+deb10u3) ...
Setting up libevent-2.1-6:amd64 (2.1.8-stable-4) ...
Setting up systemd-hwe-hwdb (249.11.5) ...
Setting up libusbmuxd6:amd64 (2.0.2-3build2) ...
Setting up libupower-glib3:amd64 (0.99.17-1) ...
Setting up libre2-5:amd64 (20190101+dfsg-2) ...
Setting up libxkbfile1:amd64 (1:1.1.0-1build3) ...
Setting up libimobiledevice6:amd64 (1.3.0-6build3) ...
Setting up libgudev-1.0-0:amd64 (1:237-2build1) ...
Setting up libvpx5:amd64 (1.7.0-3+deb10u2) ...
Setting up libjsoncpp1:amd64 (1.7.4-3) ...
Setting up libu2f-udev (1.1.10-3build2) ...
Setting up upower (0.99.17-1) ...
Setting up usbmuxd (1.1.1-2build2) ...
Warning: The home dir /var/lib/usbmux you specified can't be accessed: No such
file or directory
Adding system user `usbmux' (UID 104) ...
Adding new user `usbmux' (UID 104) with group `plugdev' ...
Not creating home directory `/var/lib/usbmux'.
Setting up x11-utils (7.7+5build2) ...
Setting up chromium-common (90.0.4430.212-1~deb10u1) ...
Setting up chromium (90.0.4430.212-1~deb10u1) ...
update-alternatives: using /usr/bin/chromium to provide /usr/bin/x-www-browser

```

```

(x-www-browser) in auto mode
update-alternatives: using /usr/bin/chromium to provide /usr/bin/gnome-www-
browser (gnome-www-browser) in auto mode
Setting up chromium-driver (90.0.4430.212-1~deb10u1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for dbus (1.12.20-2ubuntu4.1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic
link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link

Collecting selenium
  Downloading selenium-4.19.0-py3-none-any.whl (10.5 MB)
      10.5/10.5 MB
27.5 MB/s eta 0:00:00
Requirement already satisfied: urllib3[socks]<3,>=1.26 in
/usr/local/lib/python3.10/dist-packages (from selenium) (2.0.7)
Collecting trio~=0.17 (from selenium)
  Downloading trio-0.25.0-py3-none-any.whl (467 kB)
      467.2/467.2
kB 39.5 MB/s eta 0:00:00
Collecting trio-websocket~=0.9 (from selenium)
  Downloading trio_websocket-0.11.1-py3-none-any.whl (17 kB)
Requirement already satisfied: certifi>=2021.10.8 in
/usr/local/lib/python3.10/dist-packages (from selenium) (2024.2.2)
Requirement already satisfied: typing_extensions>=4.9.0 in
/usr/local/lib/python3.10/dist-packages (from selenium) (4.11.0)
Requirement already satisfied: attrs>=23.2.0 in /usr/local/lib/python3.10/dist-
packages (from trio~=0.17->selenium) (23.2.0)
Requirement already satisfied: sortedcontainers in
/usr/local/lib/python3.10/dist-packages (from trio~=0.17->selenium) (2.4.0)
Requirement already satisfied: idna in /usr/local/lib/python3.10/dist-packages
(from trio~=0.17->selenium) (3.6)
Collecting outcome (from trio~=0.17->selenium)
  Downloading outcome-1.3.0.post0-py2.py3-none-any.whl (10 kB)
Requirement already satisfied: sniffio>=1.3.0 in /usr/local/lib/python3.10/dist-
packages (from trio~=0.17->selenium) (1.3.1)

```



```

Requirement already satisfied: exceptiongroup in /usr/local/lib/python3.10/dist-
packages (from trio~=0.17->selenium) (1.2.0)
Collecting wsproto>=0.14 (from trio-websocket~=0.9->selenium)
  Downloading wsproto-1.2.0-py3-none-any.whl (24 kB)
Requirement already satisfied: pysocks!=1.5.7,<2.0,>=1.5.6 in
/usr/local/lib/python3.10/dist-packages (from urllib3[socks]<3,>=1.26->selenium)
(1.7.1)
Collecting h11<1,>=0.9.0 (from wsproto>=0.14->trio-websocket~=0.9->selenium)
  Downloading h11-0.14.0-py3-none-any.whl (58 kB)
      58.3/58.3 kB
8.3 MB/s eta 0:00:00
Installing collected packages: outcome, h11, wsproto, trio, trio-
websocket, selenium
Successfully installed h11-0.14.0 outcome-1.3.0.post0 selenium-4.19.0
trio-0.25.0 trio-websocket-0.11.1 wsproto-1.2.0

```

```
[ ]: !pip install user-agent
```

```

Collecting user-agent
  Downloading user_agent-0.1.10.tar.gz (20 kB)
  Preparing metadata (setup.py) ... done
Requirement already satisfied: six in /usr/local/lib/python3.10/dist-packages
(from user-agent) (1.16.0)
Building wheels for collected packages: user-agent
  Building wheel for user-agent (setup.py) ... done
  Created wheel for user-agent: filename=user_agent-0.1.10-py3-none-any.whl
size=18967
sha256=e74667c4bdfbe3c611b38f4b4555d54106c4ea552905b63a05a1c83a39abda5f
  Stored in directory: /root/.cache/pip/wheels/69/29/26/1956a891a058037774285ee7
9ab5c3ecf034dba50a4198fedd
Successfully built user-agent
Installing collected packages: user-agent
Successfully installed user-agent-0.1.10

```

## 2 Import Libraries

```
[ ]: from selenium import webdriver
from selenium.webdriver.chrome.options import Options
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.by import By
from selenium import webdriver
from user_agent import generate_user_agent
from bs4 import BeautifulSoup
from time import sleep
import pandas as pd
```

### 3 Set up webdriver to be Stealth

```
[ ]: #https://piprogramming.org/articles/  
    ↪How-to-make-Selenium-undetectable-and-stealth--7-Ways-to-hide-your-Bot-Automation-from-Dete  
    ↪html  
  
# driver.quit()  
  
service = Service(executable_path=r'/usr/bin/chromedriver')  
  
options = Options()  
options.add_argument("--headless")  
options.add_argument("--no-sandbox")  
options.add_argument('--disable-blink-features=AutomationControlled')  
options.add_argument("window-size=1280,800")  
options.add_argument(f"user-agent={generate_user_agent()}")  
  
driver = webdriver.Chrome(service=service , options=options)  
  
#Remove navigator.webdriver Flag using JavaScript  
driver.execute_script("Object.defineProperty(navigator, 'webdriver', {get: ()↵  
    ↪=> undefined})")
```

### 4 Get ETFs

```
[ ]: # Get a list of equity ETFs  
  
import requests  
from bs4 import BeautifulSoup  
from user_agent import generate_user_agent  
  
url = "https://stockanalysis.com/etf/"  
  
# Send a GET request to the URL  
response = requests.get(url, headers={'User-Agent': generate_user_agent()})  
  
# Create a BeautifulSoup object to parse the HTML content  
soup = BeautifulSoup(response.content, "html.parser")  
  
[ ]: script = soup.find_all("script")[-1].text  
javascript_json_string=script.split(';')[2].split('=')[1]  
javascript_json_string=javascript_json_string.split('{"type":"data","data":  
    ↪{data:')[1]  
javascript_json_string=javascript_json_string.split('}')[0]+'}]'
```

```

javascript_json_string=javascript_json_string.replace('s:', '"s":')
javascript_json_string=javascript_json_string.replace(',n:', ', "n":')
javascript_json_string=javascript_json_string.replace(',i:', ', "i":')
javascript_json_string=javascript_json_string.replace(',m:', ', "m":')

```

```

[ ]: import json
# Convert JavaScript JSON string to Python JSON object
python_json_object = json.loads(javascript_json_string)

# Print the Python JSON object
print(python_json_object)

```

```

[{'s': 'AAA', 'n': 'Alternative Access First Priority CLO Bond ETF', 'i': 'Fixed Income', 'm': 19995624}, {'s': 'AAAU', 'n': 'Goldman Sachs Physical Gold ETF', 'i': 'Commodity', 'm': 680485300}, {'s': 'AADR', 'n': 'AdvisorShares Dorsey Wright ADR ETF', 'i': 'Equity', 'm': 25955956}, {'s': 'AAPB', 'n': 'GraniteShares 2x Long AAPL Daily ETF', 'i': 'Equity', 'm': 19099518}, {'s': 'AAPD', 'n': 'Direxion Daily AAPL Bear 1X Shares ETF', 'i': 'Equity', 'm': 32221922}, {'s': 'AAPR', 'n': 'Innovator Equity Defined Protection ETF - 2 Yr to April 2026', 'i': 'Equity', 'm': 33756525}, {'s': 'AAPU', 'n': 'Direxion Daily AAPL Bull 2X Shares', 'i': 'Equity', 'm': 58572524}, {'s': 'AAPX', 'n': 'T-Rex 2X Long Apple Daily Target ETF', 'i': 'Equity', 'm': 3820122}, {'s': 'AAPY', 'n': 'Kurv Yield Premium Strategy Apple (AAPL) ETF', 'i': 'Equity', 'm': 482672}, {'s': 'AAXJ', 'n': 'iShares MSCI All Country Asia ex Japan ETF', 'i': 'Equity', 'm': 2338788600}, {'s': 'ABCS', 'n': 'Alpha Blue Capital US Small-Mid Cap Dynamic ETF', 'i': 'Equity', 'm': 9199470}, {'s': 'ABEQ', 'n': 'Absolute Select Value ETF', 'i': 'Equity', 'm': 81612750}, {'s': 'ACES', 'n': 'ALPS Clean Energy ETF', 'i': 'Equity', 'm': 216676060}, {'s': 'ACIO', 'n': 'Aptus Collared Investment Opportunity ETF', 'i': 'Equity', 'm': 782206300}, {'s': 'ACSI', 'n': 'American Customer Satisfaction ETF', 'i': 'Equity', 'm': 91710000}, {'s': 'ACTV', 'n': 'LeaderShares Activist Leaders ETF', 'i': 'Equity', 'm': 86011500}, {'s': 'ACVF', 'n': 'American Conservative Values ETF', 'i': 'Equity', 'm': 84086250}, {'s': 'ACWI', 'n': 'iShares MSCI ACWI ETF', 'i': 'Equity', 'm': 19400077000}, {'s': 'ACWV', 'n': 'iShares MSCI Global Min Vol Factor ETF', 'i': 'Equity', 'm': 4227370500}, {'s': 'ACWX', 'n': 'iShares MSCI ACWI ex U.S. ETF', 'i': 'Equity', 'm': 4598100000}, {'s': 'ADFI', 'n': 'Anfield Dynamic Fixed Income ETF', 'i': 'Fixed Income', 'm': 27267500}, {'s': 'ADIV', 'n': 'SmartETFs Asia Pacific Dividend Builder ETF', 'i': 'Equity', 'm': 3261539}, {'s': 'ADME', 'n': 'Aptus Drawdown Managed Equity ETF', 'i': 'Equity', 'm': 162153860}, {'s': 'ADPV', 'n': 'Adaptiv Select ETF', 'i': 'Equity', 'm': 57136310}, {'s': 'ADVE', 'n': 'Matthews Asia Dividend Active ETF', 'i': 'Equity', 'm': 1596250}, {'s': 'AEMB', 'n': 'American Century Emerging Markets Bond ETF', 'i': 'Fixed Income', 'm': 28643250}, {'s': 'AESR', 'n': 'Anfield U.S. Equity Sector Rotation ETF', 'i': 'Equity', 'm': 93818000}, {'s': 'AETH', 'n': 'Bitwise Ethereum Strategy ETF', 'i': 'Currency', 'm': 12834437}, {'s': 'AFIF', 'n': 'Anfield Universal Fixed Income ETF', 'i': 'Fixed Income', 'm': 109761750}, {'s': 'AFK', 'n': 'VanEck Africa Index ETF', 'i': 'Equity', 'm': 42387400}, {'s': 'AFLG', 'n':

```

'First Trust Active Factor Large Cap ETF', 'i': 'Equity', 'm': 4562761}, {'s': 'AFMC', 'n': 'First Trust Active Factor Mid Cap ETF', 'i': 'Equity', 'm': 7253058}, {'s': 'AFSM', 'n': 'First Trust Active Factor Small Cap ETF', 'i': 'Equity', 'm': 9700305}, {'s': 'AFTY', 'n': 'Pacer CSOP FTSE China A50 ETF', 'i': 'Equity', 'm': 4232887}, {'s': 'AGG', 'n': 'iShares Core U.S. Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 104510080000}, {'s': 'AGGH', 'n': 'Simplify Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 192215020}, {'s': 'AGGY', 'n': 'WisdomTree Yield Enhanced U.S. Aggregate Bond Fund', 'i': 'Fixed Income', 'm': 965975800}, {'s': 'AGIH', 'n': 'iShares Inflation Hedged U.S. Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 2418790}, {'s': 'AGNG', 'n': 'Global X Aging Population ETF', 'i': 'Equity', 'm': 56944910}, {'s': 'AGOX', 'n': 'Adaptive Alpha Opportunities ETF', 'i': 'Asset Allocation', 'm': 251243980}, {'s': 'AGQ', 'n': 'ProShares Ultra Silver', 'i': 'Commodity', 'm': 493618020}, {'s': 'AGQI', 'n': 'First Trust Active Global Quality Income ETF -VIII-', 'i': 'Equity', 'm': 72284040}, {'s': 'AGRH', 'n': 'iShares Interest Rate Hedged U.S. Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 5176960}, {'s': 'AGZ', 'n': 'iShares Agency Bond ETF', 'i': 'Fixed Income', 'm': 612313500}, {'s': 'AGZD', 'n': 'WisdomTree Interest Rate Hedged U.S. Aggregate Bond Fund', 'i': 'Fixed Income', 'm': 168310370}, {'s': 'AHLT', 'n': 'American Beacon AHL Trend ETF', 'i': 'Asset Allocation', 'm': 38280024}, {'s': 'AHQY', 'n': 'Newday Ocean Health ETF', 'i': 'Equity', 'm': 2867500}, {'s': 'AHYB', 'n': 'American Century Select High Yield ETF', 'i': 'Fixed Income', 'm': 33609976}, {'s': 'AIA', 'n': 'iShares Asia 50 ETF', 'i': 'Equity', 'm': 1482304000}, {'s': 'AIEQ', 'n': 'Amplify AI Powered Equity ETF', 'i': 'Equity', 'm': 106080000}, {'s': 'AIQ', 'n': 'Global X Artificial Intelligence & Technology ETF', 'i': 'Equity', 'm': 1699662000}, {'s': 'AIRL', 'n': 'Themes Airlines ETF', 'i': 'Equity', 'm': 500600}, {'s': 'AIRR', 'n': 'First Trust RBA American Industrial Renaissance ETF', 'i': 'Equity', 'm': 886827000}, {'s': 'AIVI', 'n': 'WisdomTree International AI Enhanced Value Fund', 'i': 'Equity', 'm': 72302580}, {'s': 'AIVL', 'n': 'WisdomTree U.S. AI Enhanced Value Fund', 'i': 'Equity', 'm': 367981280}, {'s': 'AIYY', 'n': 'YieldMax AI Option Income Strategy ETF', 'i': 'Equity', 'm': 28400412}, {'s': 'AJAN', 'n': 'Innovator Equity Defined Protection ETF - 2 Yr to January 2026', 'i': 'Equity', 'm': 78570136}, {'s': 'ALAI', 'n': 'Alger AI Enablers & Adopters ETF', 'i': 'Equity', 'm': 3550050}, {'s': 'ALTL', 'n': 'Pacer Lunt Large Cap Alternator ETF', 'i': 'Equity', 'm': 260684270}, {'s': 'ALTY', 'n': 'Global X Alternative Income ETF', 'i': 'Asset Allocation', 'm': 34674976}, {'s': 'ALUM', 'n': 'USCF Aluminum Strategy Fund', 'i': 'Commodity', 'm': 2398425}, {'s': 'AMAX', 'n': 'Adaptive Hedged Multi-Asset Income ETF', 'i': 'Asset Allocation', 'm': 18363788}, {'s': 'AMDL', 'n': 'GraniteShares 2x Long AMD Daily ETF', 'i': 'Equity', 'm': 14025619}, {'s': 'AMDS', 'n': 'GraniteShares 1x Short AMD Daily ETF', 'i': 'Equity', 'm': 1621112.5}, {'s': 'AMDY', 'n': 'YieldMax AMD Option Income Strategy ETF', 'i': 'Equity', 'm': 110922140}, {'s': 'AMID', 'n': 'Argent Mid Cap ETF Argent Mid Cap ETF', 'i': 'Equity', 'm': 55308960}, {'s': 'AMPL', 'n': 'Alerian MLP ETF', 'i': 'Equity', 'm': 8267825700}, {'s': 'AMOM', 'n': 'QRAFT AI-Enhanced U.S. Large Cap Momentum ETF', 'i': 'Equity', 'm': 20754838}, {'s': 'AMPD', 'n': 'CNIC ICE US Carbon Neutral Power Futures Index ETF', 'i': 'Commodity', 'm': 4486080}, {'s': 'AMZA', 'n': 'InfraCap MLP ETF', 'i': 'Equity', 'm': 389683140}, {'s': 'AMZD', 'n': 'Direxion

Daily AMZN Bear 1X Shares ETF', 'i': 'Equity', 'm': 2777814}, {'s': 'AMZP', 'n':  
 'Kurv Yield Premium Strategy Amazon (AMZN) ETF', 'i': 'Equity', 'm': 937800},  
 {'s': 'AMZU', 'n': 'Direxion Daily AMZN Bull 2X Shares', 'i': 'Equity', 'm':  
 83808040}, {'s': 'AMZY', 'n': 'YieldMax AMZN Option Income Strategy ETF', 'i':  
 'Equity', 'm': 71317850}, {'s': 'AMZZ', 'n': 'GraniteShares 2x Long AMZN Daily  
 ETF', 'i': 'Equity', 'm': 8167629}, {'s': 'ANEW', 'n': 'ProShares MSCI  
 Transformational Changes ETF', 'i': 'Equity', 'm': 8256861.5}, {'s': 'ANGL',  
 'n': 'VanEck Fallen Angel High Yield Bond ETF', 'i': 'Fixed Income', 'm':  
 3112402400}, {'s': 'AOA', 'n': 'iShares Core Aggressive Allocation ETF', 'i':  
 'Asset Allocation', 'm': 1852764800}, {'s': 'AOHY', 'n': 'Angel Oak High Yield  
 Opportunities ETF', 'i': 'Fixed Income', 'm': 76795640}, {'s': 'AOK', 'n':  
 'iShares Core Conservative Allocation ETF', 'i': 'Asset Allocation', 'm':  
 602922200}, {'s': 'AOM', 'n': 'iShares Core Moderate Allocation ETF', 'i':  
 'Asset Allocation', 'm': 1355241700}, {'s': 'AOR', 'n': 'iShares Core Growth  
 Allocation ETF', 'i': 'Asset Allocation', 'm': 2014841900}, {'s': 'AOTG', 'n':  
 'AOT Growth and Innovation ETF', 'i': 'Equity', 'm': 36712610}, {'s': 'APCB',  
 'n': 'ActivePassive Core Bond ETF', 'i': 'Fixed Income', 'm': 561085800}, {'s':  
 'APIE', 'n': 'ActivePassive International Equity ETF', 'i': 'Equity', 'm':  
 572221700}, {'s': 'APLY', 'n': 'YieldMax AAPL Option Income Strategy ETF', 'i':  
 'Equity', 'm': 56909800}, {'s': 'APMU', 'n': 'ActivePassive Intermediate  
 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 98243200}, {'s': 'APRD', 'n':  
 'Innovator Premium Income 10 Barrier ETF - April', 'i': 'Equity', 'm': 9153750},  
 {'s': 'APRH', 'n': 'Innovator Premium Income 20 Barrier ETF - April', 'i':  
 'Equity', 'm': 25651500}, {'s': 'APRJ', 'n': 'Innovator Premium Income 30  
 Barrier ETF - April', 'i': 'Equity', 'm': 38524500}, {'s': 'APRP', 'n': 'PGIM US  
 Large-Cap Buffer 12 ETF - April', 'i': 'Equity', 'm': 3481404.8}, {'s': 'APRQ',  
 'n': 'Innovator Premium Income 40 Barrier ETF - April', 'i': 'Equity', 'm':  
 20791000}, {'s': 'APRT', 'n': 'AllianzIM US Large Cap Buffer10 Apr ETF', 'i':  
 'Equity', 'm': 79698910}, {'s': 'APRW', 'n': 'AllianzIM US Large Cap Buffer20  
 Apr ETF', 'i': 'Equity', 'm': 272502750}, {'s': 'APRZ', 'n': 'TrueShares  
 Structured Outcome (April) ETF', 'i': 'Equity', 'm': 23316200}, {'s': 'APUE',  
 'n': 'ActivePassive U.S. Equity ETF', 'i': 'Equity', 'm': 1203433200}, {'s':  
 'AQWA', 'n': 'Global X Clean Water ETF', 'i': 'Equity', 'm': 9502883}, {'s':  
 'ARB', 'n': 'AltShares Merger Arbitrage ETF', 'i': 'Alternatives', 'm':  
 74590650}, {'s': 'ARCM', 'n': 'Arrow Reserve Capital Management ETF', 'i':  
 'Fixed Income', 'm': 46092000}, {'s': 'ARGT', 'n': 'Global X MSCI Argentina  
 ETF', 'i': 'Equity', 'm': 192776380}, {'s': 'ARKA', 'n': 'ARK 21Shares Active  
 Bitcoin Futures Strategy ETF', 'i': 'Currency', 'm': 17705188}, {'s': 'ARKB',  
 'n': 'ARK 21Shares Bitcoin ETF Ben of Int', 'i': 'Currency', 'm': 2922893800},  
 {'s': 'ARKC', 'n': 'ARK 21Shares Active On-Chain Bitcoin Strategy ETF', 'i':  
 'Currency', 'm': 2586654}, {'s': 'ARKD', 'n': 'ARK 21Shares Blockchain and  
 Digital Economy Innovation ETF', 'i': 'Asset Allocation', 'm': 4602080}, {'s':  
 'ARKF', 'n': 'ARK Fintech Innovation ETF', 'i': 'Equity', 'm': 1100551300},  
 {'s': 'ARKG', 'n': 'ARK Genomic Revolution ETF', 'i': 'Equity', 'm':  
 1413608700}, {'s': 'ARKK', 'n': 'ARK Innovation ETF', 'i': 'Equity', 'm':  
 7203225000}, {'s': 'ARKQ', 'n': 'ARK Autonomous Technology & Robotics ETF', 'i':  
 'Equity', 'm': 845604200}, {'s': 'ARKW', 'n': 'ARK Next Generation Internet  
 ETF', 'i': 'Equity', 'm': 1707056000}, {'s': 'ARKX', 'n': 'ARK Space Exploration

& Innovation ETF', 'i': 'Equity', 'm': 238777500}, {'s': 'ARKY', 'n': 'ARK  
 21Shares Active Bitcoin Ethereum Strategy ETF', 'i': 'Currency', 'm': 5144772},  
 {'s': 'ARKZ', 'n': 'ARK 21Shares Active Ethereum Futures Strategy ETF', 'i':  
 'Currency', 'm': 14343376}, {'s': 'ARLU', 'n': 'AllianzIM U.S. Equity Buffer15  
 Uncapped Apr ETF', 'i': 'Equity', 'm': 12408600}, {'s': 'ARP', 'n': 'PMV  
 Adaptive Risk Parity ETF', 'i': 'Alternatives', 'm': 22909040}, {'s': 'ARVR',  
 'n': 'First Trust Indxx Metaverse ETF', 'i': 'Equity', 'm': 1764820.6}, {'s':  
 'ASEA', 'n': 'Global X FTSE Southeast Asia ETF', 'i': 'Equity', 'm': 44026532},  
 {'s': 'ASET', 'n': 'FlexShares Real Assets Allocation Index Fund Real Assets  
 Allocation Index Fund', 'i': 'Asset Allocation', 'm': 9963718}, {'s': 'ASHR',  
 'n': 'Xtrackers Harvest CSI 300 China A-Shares ETF', 'i': 'Equity', 'm':  
 1678117800}, {'s': 'ASHS', 'n': 'Xtrackers Harvest CSI 500 China A-Shares Small  
 Cap ETF', 'i': 'Equity', 'm': 20998426}, {'s': 'ASIA', 'n': 'Matthews Pacific  
 Tiger Active ETF', 'i': 'Equity', 'm': 84120300}, {'s': 'ATFV', 'n': 'Alger 35  
 ETF', 'i': 'Equity', 'm': 17054012}, {'s': 'AUGT', 'n': 'AllianzIM U.S. Large  
 Cap Buffer10 Aug ETF', 'i': 'Equity', 'm': 30587920}, {'s': 'AUGW', 'n':  
 'AllianzIM U.S. Large Cap Buffer20 Aug ETF', 'i': 'Equity', 'm': 90199270},  
 {'s': 'AUGZ', 'n': 'TrueShares Structured Outcome (August) ETF', 'i': 'Equity',  
 'm': 15834696}, {'s': 'AUMI', 'n': 'Themes Gold Miners ETF', 'i': 'Equity', 'm':  
 1588135}, {'s': 'AUSF', 'n': 'Global X Adaptive U.S. Factor ETF', 'i': 'Equity',  
 'm': 238121870}, {'s': 'AVDE', 'n': 'Avantis International Equity ETF', 'i':  
 'Equity', 'm': 4239811300}, {'s': 'AVDS', 'n': 'Avantis International Small Cap  
 Equity ETF', 'i': 'Equity', 'm': 16639072}, {'s': 'AVDV', 'n': 'Avantis  
 International Small Cap Value ETF', 'i': 'Equity', 'm': 5725917700}, {'s':  
 'AVEE', 'n': 'Avantis Emerging Markets Small Cap Equity ETF', 'i': 'Equity',  
 'm': 13424775}, {'s': 'AVEM', 'n': 'Avantis Emerging Markets Equity ETF', 'i':  
 'Equity', 'm': 5091634000}, {'s': 'AVES', 'n': 'Avantis Emerging Markets Value  
 ETF', 'i': 'Equity', 'm': 446714660}, {'s': 'AVGE', 'n': 'Avantis All Equity  
 Markets ETF', 'i': 'Equity', 'm': 337159460}, {'s': 'AVGV', 'n': 'Avantis All  
 Equity Markets Value ETF', 'i': 'Equity', 'm': 66656130}, {'s': 'AVIE', 'n':  
 'Avantis Inflation Focused Equity ETF', 'i': 'Equity', 'm': 4958712}, {'s':  
 'AVIG', 'n': 'Avantis Core Fixed Income ETF', 'i': 'Fixed Income', 'm':  
 695038700}, {'s': 'AVIV', 'n': 'Avantis International Large Cap Value ETF', 'i':  
 'Equity', 'm': 344563650}, {'s': 'AVLC', 'n': 'Avantis U.S. Large Cap Equity  
 ETF', 'i': 'Equity', 'm': 253535360}, {'s': 'AVLV', 'n': 'Avantis U.S. Large Cap  
 Value ETF', 'i': 'Equity', 'm': 3209793500}, {'s': 'AVMA', 'n': 'Avantis  
 Moderate Allocation ETF', 'i': 'Asset Allocation', 'm': 8820850}, {'s': 'AVMC',  
 'n': 'Avantis U.S. Mid Cap Equity ETF', 'i': 'Equity', 'm': 16865660}, {'s':  
 'AVMU', 'n': 'Avantis Core Municipal Fixed Income ETF', 'i': 'Fixed Income',  
 'm': 140612320}, {'s': 'AVMV', 'n': 'Avantis U.S. Mid Cap Value ETF', 'i':  
 'Equity', 'm': 20512336}, {'s': 'AVNM', 'n': 'Avantis All International Markets  
 Equity ETF', 'i': 'Equity', 'm': 16288807}, {'s': 'AVNV', 'n': 'Avantis All  
 International Markets Value ETF', 'i': 'Equity', 'm': 2418441.2}, {'s': 'AVRE',  
 'n': 'Avantis Real Estate ETF', 'i': 'Equity', 'm': 421919680}, {'s': 'AVSC',  
 'n': 'Avantis U.S Small Cap Equity ETF', 'i': 'Equity', 'm': 986751600}, {'s':  
 'AVSD', 'n': 'Avantis Responsible International Equity ETF', 'i': 'Equity', 'm':  
 137198290}, {'s': 'AVSE', 'n': 'Avantis Responsible Emerging Markets Equity  
 ETF', 'i': 'Equity', 'm': 70543950}, {'s': 'AVSF', 'n': 'Avantis Short-Term

Fixed Income ETF', 'i': 'Fixed Income', 'm': 348294340}, {'s': 'AVSU', 'n': 'Avantis Responsible U.S. Equity ETF', 'i': 'Equity', 'm': 249826780}, {'s': 'AVUS', 'n': 'Avantis U.S. Equity ETF', 'i': 'Equity', 'm': 6321705500}, {'s': 'AVUV', 'n': 'Avantis U.S. Small Cap Value ETF', 'i': 'Equity', 'm': 10626456000}, {'s': 'AVXC', 'n': 'Avantis Emerging Markets ex-China Equity ETF', 'i': 'Equity', 'm': 6068220}, {'s': 'AWAY', 'n': 'Amplify Travel Tech ETF', 'i': 'Equity', 'm': 89154120}, {'s': 'AWEG', 'n': 'Alger Weatherbie Enduring Growth ETF', 'i': 'Equity', 'm': 4633200}, {'s': 'AZTD', 'n': 'Aztlan Global Stock Selection DM SMID ETF', 'i': 'Equity', 'm': 39397830}, {'s': 'BAB', 'n': 'Invesco Taxable Municipal Bond ETF', 'i': 'Fixed Income', 'm': 1270717400}, {'s': 'BABX', 'n': 'GraniteShares 2x Long BABA Daily ETF', 'i': 'Equity', 'm': 15576114}, {'s': 'BALI', 'n': 'BlackRock Advantage Large Cap Income ETF', 'i': 'Equity', 'm': 32346446}, {'s': 'BALT', 'n': 'Innovator Defined Wealth Shield ETF', 'i': 'Equity', 'm': 610420030}, {'s': 'BAMA', 'n': 'Brookstone Active ETF', 'i': 'Asset Allocation', 'm': 35746200}, {'s': 'BAMB', 'n': 'Brookstone Intermediate Bond ETF', 'i': 'Fixed Income', 'm': 54334600}, {'s': 'BAMD', 'n': 'Brookstone Dividend Stock ETF', 'i': 'Equity', 'm': 70686000}, {'s': 'BAMG', 'n': 'Brookstone Growth Stock ETF', 'i': 'Equity', 'm': 76483200}, {'s': 'BAMO', 'n': 'Brookstone Opportunities ETF', 'i': 'Asset Allocation', 'm': 33780000}, {'s': 'BAMU', 'n': 'Brookstone Ultra-Short Bond ETF', 'i': 'Fixed Income', 'm': 62009500}, {'s': 'BAMV', 'n': 'Brookstone Value Stock ETF', 'i': 'Equity', 'm': 75315200}, {'s': 'BAMY', 'n': 'Brookstone Yield ETF', 'i': 'Asset Allocation', 'm': 33294000}, {'s': 'BAPR', 'n': 'Innovator U.S. Equity Buffer ETF - April', 'i': 'Equity', 'm': 222521040}, {'s': 'BAR', 'n': 'GraniteShares Gold Shares', 'i': 'Commodity', 'm': 1068030000}, {'s': 'BATT', 'n': 'Amplify Lithium & Battery Technology ETF', 'i': 'Equity', 'm': 88257000}, {'s': 'BAUG', 'n': 'Innovator U.S. Equity Buffer ETF - August', 'i': 'Equity', 'm': 163233730}, {'s': 'BBAG', 'n': 'JPMorgan BetaBuilders U.S. Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 1607880600}, {'s': 'BBAX', 'n': 'JPMorgan BetaBuilders Developed Asia Pacific ex-Japan ETF', 'i': 'Equity', 'm': 4443342000}, {'s': 'BBBI', 'n': 'BondBloxx BBB Rated 5-10 Year Corporate Bond ETF', 'i': 'Fixed Income', 'm': 4914060}, {'s': 'BBBL', 'n': 'BondBloxx BBB Rated 10+ Year Corporate Bond ETF', 'i': 'Fixed Income', 'm': 4796200}, {'s': 'BBBS', 'n': 'BondBloxx BBB Rated 1-5 Year Corporate Bond ETF', 'i': 'Fixed Income', 'm': 2482640}, {'s': 'BBC', 'n': 'Virtus LifeSci Biotech Clinical Trials ETF', 'i': 'Equity', 'm': 11255713}, {'s': 'BBCA', 'n': 'JPMorgan BetaBuilders Canada ETF', 'i': 'Equity', 'm': 7008787500}, {'s': 'BBCB', 'n': 'JPMorgan BetaBuilders USD Investment Grade Corporate Bond ETF', 'i': 'Fixed Income', 'm': 47740750}, {'s': 'BBEM', 'n': 'JPMorgan BetaBuilders Emerging Markets Equity ETF', 'i': 'Equity', 'm': 571824000}, {'s': 'BBEU', 'n': 'JPMorgan BetaBuilders Europe ETF', 'i': 'Equity', 'm': 7640191500}, {'s': 'BBH', 'n': 'VanEck Biotech ETF', 'i': 'Equity', 'm': 424515870}, {'s': 'BBHY', 'n': 'JPMorgan BetaBuilders USD High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 953565000}, {'s': 'BBIB', 'n': 'JPMorgan BetaBuilders U.S. Treasury Bond 3-10 Year ETF', 'i': 'Fixed Income', 'm': 4051100}, {'s': 'BBIN', 'n': 'JPMorgan BetaBuilders International Equity ETF BetaBuilders International Equity Fund', 'i': 'Equity', 'm': 4047912000}, {'s': 'BBIP', 'n': 'JPMorgan BetaBuilders U.S. TIPS 0-5 Year ETF', 'i': 'Fixed Income', 'm': 969300}, {'s': 'BBJP', 'n': 'JPMorgan BetaBuilders

Japan Fund BetaBuilders Japan Fund', 'i': 'Equity', 'm': 11756947000}, {'s':  
 'BBLB', 'n': 'JPMorgan BetaBuilders U.S. Treasury Bond 20+ Year ETF', 'i':  
 'Fixed Income', 'm': 23293300}, {'s': 'BBLU', 'n': 'EA Bridgeway Blue Chip ETF  
 EA Bridgeway Blue Chip ETF', 'i': 'Equity', 'm': 158837200}, {'s': 'BBMC', 'n':  
 'JPMorgan BetaBuilders U.S. Mid Cap Equity ETF BetaBuilders US Mid Cap Equity  
 ETF', 'i': 'Equity', 'm': 1639572500}, {'s': 'BBP', 'n': 'Virtus LifeSci Biotech  
 Products ETF', 'i': 'Equity', 'm': 19185820}, {'s': 'BBRE', 'n': 'JPMorgan  
 BetaBuilders MSCI US REIT ETF JPMorgan BetaBuilders MSCI U.S. REIT Fund', 'i':  
 'Equity', 'm': 784770750}, {'s': 'BBSA', 'n': 'JPMorgan Betabuilders 1-5 Year  
 U.S. Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 14112459}, {'s': 'BBSB',  
 'n': 'JPMorgan BetaBuilders U.S. Treasury Bond 1-3 Year ETF', 'i': 'Fixed  
 Income', 'm': 2921100}, {'s': 'BBSC', 'n': 'JPMorgan BetaBuilders U.S. Small Cap  
 Equity Fund JPMorgan BetaBuilders U.S. Small Cap Equity Fund', 'i': 'Equity',  
 'm': 462519000}, {'s': 'BBUS', 'n': 'JPMorgan BetaBuilders U.S. Equity ETF',  
 'i': 'Equity', 'm': 3095323000}, {'s': 'BCD', 'n': 'abrdn Bloomberg All  
 Commodity Longer Dated Strategy K-1 Free ETF', 'i': 'Commodity', 'm':  
 223742960}, {'s': 'BCDF', 'n': 'Horizon Kinetics Blockchain Development ETF',  
 'i': 'Equity', 'm': 9090450}, {'s': 'BCHP', 'n': 'Principal Focused Blue Chip  
 ETF', 'i': 'Equity', 'm': 40431200}, {'s': 'BCI', 'n': 'abrdn Bloomberg All  
 Commodity Strategy K-1 Free ETF', 'i': 'Commodity', 'm': 995963600}, {'s':  
 'BCIL', 'n': 'Bancreek International Large Cap ETF', 'i': 'Equity', 'm':  
 1708000}, {'s': 'BCIM', 'n': 'abrdn Bloomberg Industrial Metals Strategy K-1  
 Free ETF', 'i': 'Commodity', 'm': 26887642}, {'s': 'BCUS', 'n': 'Bancreek U.S.  
 Large Cap ETF', 'i': 'Equity', 'm': 28421400}, {'s': 'BDEC', 'n': 'Innovator  
 U.S. Equity Buffer ETF - December', 'i': 'Equity', 'm': 149761570}, {'s':  
 'BDGS', 'n': 'Bridges Capital Tactical ETF', 'i': 'Equity', 'm': 19322310},  
 {'s': 'BDRY', 'n': 'Breakwave Dry Bulk Shipping ETF', 'i': 'Commodity', 'm':  
 52135296}, {'s': 'BDVG', 'n': 'IMGP Berkshire Dividend Growth ETF', 'i':  
 'Equity', 'm': 4113750}, {'s': 'BECO', 'n': 'BlackRock Future Climate and  
 Sustainable Economy ETF', 'i': 'Equity', 'm': 3134160}, {'s': 'BEDZ', 'n':  
 'AdvisorShares Hotel ETF', 'i': 'Equity', 'm': 4155760}, {'s': 'BEEZ', 'n':  
 'Honeytree U.S. Equity ETF', 'i': 'Equity', 'm': 4726560}, {'s': 'BEMB', 'n':  
 'iShares J.P. Morgan Broad USD Emerging Markets Bond ETF', 'i': 'Fixed Income',  
 'm': 41011920}, {'s': 'BETE', 'n': 'ProShares Bitcoin & Ether Equal Weight  
 Strategy ETF', 'i': 'Currency', 'm': 5812919}, {'s': 'BETH', 'n': 'ProShares  
 Bitcoin & Ether Market Cap Weight Strategy ETF', 'i': 'Currency', 'm': 7772769},  
 {'s': 'BETZ', 'n': 'Roundhill Sports Betting & iGaming ETF', 'i': 'Equity', 'm':  
 89008390}, {'s': 'BFEB', 'n': 'Innovator U.S. Equity Buffer ETF - February',  
 'i': 'Equity', 'm': 220207500}, {'s': 'BFIX', 'n': 'Build Bond Innovation ETF',  
 'i': 'Fixed Income', 'm': 8745338}, {'s': 'BFOR', 'n': 'ALPS Barron's 400 ETF',  
 'i': 'Equity', 'm': 139995000}, {'s': 'BGIG', 'n': 'Bahl & Gaynor Income Growth  
 ETF', 'i': 'Equity', 'm': 129517420}, {'s': 'BGLD', 'n': 'FT Vest Gold Strategy  
 Quarterly Buffer ETF', 'i': 'Commodity', 'm': 23156440}, {'s': 'BGRN', 'n':  
 'iShares Trust iShares USD Green Bond ETF', 'i': 'Fixed Income', 'm':  
 344862750}, {'s': 'BHYB', 'n': 'Xtrackers USD High Yield BB-B ex Financials  
 ETF', 'i': 'Fixed Income', 'm': 623243600}, {'s': 'BIB', 'n': 'ProShares Ultra  
 Nasdaq Biotechnology', 'i': 'Equity', 'm': 85901120}, {'s': 'BIBL', 'n':  
 'Inspire 100 ETF', 'i': 'Equity', 'm': 335896000}, {'s': 'BIL', 'n': 'SPDR



Bloomberg 1-3 Month T-Bill ETF', 'i': 'Fixed Income', 'm': 31999443000}, {'s':  
 'BILD', 'n': 'Macquarie Global Listed Infrastructure ETF', 'i': 'Equity', 'm':  
 4868000}, {'s': 'BILS', 'n': 'SPDR Bloomberg 3-12 Month T-Bill ETF', 'i': 'Fixed  
 Income', 'm': 2786242000}, {'s': 'BILZ', 'n': 'PIMCO Ultra Short Government  
 Active Exchange-Traded Fund PIMCO Ultra Short Government Active Exchange-Traded  
 Fund', 'i': 'Fixed Income', 'm': 271232700}, {'s': 'BINC', 'n': 'BlackRock  
 Flexible Income ETF', 'i': 'Fixed Income', 'm': 2841195300}, {'s': 'BINV', 'n':  
 'Brandes International ETF', 'i': 'Equity', 'm': 71334200}, {'s': 'BIS', 'n':  
 'ProShares UltraShort Nasdaq Biotechnology', 'i': 'Equity', 'm': 4150524.8},  
 {'s': 'BITB', 'n': 'Bitwise Bitcoin ETF Trust', 'i': 'Currency', 'm':  
 2238869200}, {'s': 'BITC', 'n': 'Bitwise Bitcoin Strategy Optimum Roll ETF',  
 'i': 'Currency', 'm': 13452965}, {'s': 'BITI', 'n': 'ProShares Short Bitcoin  
 Strategy ETF', 'i': 'Currency', 'm': 87608910}, {'s': 'BITO', 'n': 'ProShares  
 Bitcoin Strategy ETF', 'i': 'Currency', 'm': 2803013400}, {'s': 'BITQ', 'n':  
 'Bitwise Crypto Industry Innovators ETF', 'i': 'Equity', 'm': 117777800}, {'s':  
 'BITS', 'n': 'Global X Blockchain & Bitcoin Strategy ETF', 'i': 'Asset  
 Allocation', 'm': 26189644}, {'s': 'BITU', 'n': 'ProShares UltraBitcoin ETF',  
 'i': 'Currency', 'm': 91380.7}, {'s': 'BITX', 'n': '2x Bitcoin Strategy ETF',  
 'i': 'Currency', 'm': 1703105500}, {'s': 'BIV', 'n': 'Vanguard Intermediate-Term  
 Bond ETF', 'i': 'Fixed Income', 'm': 17310430000}, {'s': 'BIZD', 'n': 'VanEck  
 BDC Income ETF', 'i': 'Equity', 'm': 1030735100}, {'s': 'BJAN', 'n': 'Innovator  
 U.S. Equity Buffer ETF - January', 'i': 'Equity', 'm': 261424750}, {'s': 'BJK',  
 'n': 'VanEck Gaming ETF', 'i': 'Equity', 'm': 43637224}, {'s': 'BJUL', 'n':  
 'Innovator U.S. Equity Buffer ETF - July', 'i': 'Equity', 'm': 193965000}, {'s':  
 'BJUN', 'n': 'Innovator U.S. Equity Buffer ETF - June', 'i': 'Equity', 'm':  
 91164720}, {'s': 'BKAG', 'n': 'BNY Mellon Core Bond ETF', 'i': 'Fixed Income',  
 'm': 1753323000}, {'s': 'BKCH', 'n': 'Global X Blockchain ETF', 'i': 'Equity',  
 'm': 134120584}, {'s': 'BKCI', 'n': 'BNY Mellon Concentrated International ETF',  
 'i': 'Equity', 'm': 116588250}, {'s': 'BKEM', 'n': 'BNY Mellon Emerging Markets  
 Equity ETF', 'i': 'Equity', 'm': 98923000}, {'s': 'BKF', 'n': 'iShares MSCI BIC  
 ETF', 'i': 'Equity', 'm': 71309660}, {'s': 'BKGI', 'n': 'BNY Mellon Global  
 Infrastructure Income ETF', 'i': 'Equity', 'm': 20934028}, {'s': 'BKHY', 'n':  
 'BNY Mellon High Yield Beta ETF', 'i': 'Fixed Income', 'm': 276474000}, {'s':  
 'BKIE', 'n': 'BNY Mellon International Equity ETF', 'i': 'Equity', 'm':  
 615216000}, {'s': 'BKIV', 'n': 'BNY Mellon Innovators ETF', 'i': 'Equity', 'm':  
 14239832}, {'s': 'BKLC', 'n': 'BNY Mellon US Large Cap Core Equity ETF', 'i':  
 'Equity', 'm': 2311466500}, {'s': 'BKLN', 'n': 'Invesco Senior Loan ETF', 'i':  
 'Fixed Income', 'm': 7397204000}, {'s': 'BKMC', 'n': 'BNY Mellon US Mid Cap Core  
 Equity ETF', 'i': 'Equity', 'm': 468855900}, {'s': 'BKSE', 'n': 'BNY Mellon US  
 Small Cap Core Equity ETF', 'i': 'Equity', 'm': 111549900}, {'s': 'BKUI', 'n':  
 'BNY Mellon Ultra Short Income ETF', 'i': 'Fixed Income', 'm': 74110550}, {'s':  
 'BKWO', 'n': 'BNY Mellon Women's Opportunities ETF', 'i': 'Equity', 'm':  
 12925632}, {'s': 'BLCN', 'n': 'Siren ETF Trust Siren Nasdaq NexGen Economy ETF',  
 'i': 'Equity', 'm': 76481176}, {'s': 'BLCR', 'n': 'BlackRock Large Cap Core  
 ETF', 'i': 'Equity', 'm': 7003891}, {'s': 'BLCV', 'n': 'BlackRock Large Cap  
 Value ETF', 'i': 'Equity', 'm': 7056055}, {'s': 'BLDG', 'n': 'Cambria Global  
 Real Estate ETF', 'i': 'Equity', 'm': 22760528}, {'s': 'BLES', 'n': 'Inspire  
 Global Hope ETF', 'i': 'Equity', 'm': 112819500}, {'s': 'BLKC', 'n': 'Invesco

Alerian Galaxy Blockchain Users and Decentralized Commerce ETF', 'i': 'Equity',  
 'm': 2939719.5}, {'s': 'BLLD', 'n': 'JPMorgan Sustainable Infrastructure Fund  
 JPMorgan Sustainable Infrastructure Fund', 'i': 'Equity', 'm': 24113250}, {'s':  
 'BLOK', 'n': 'Amplify Transformational Data Sharing ETF', 'i': 'Equity', 'm':  
 667896000}, {'s': 'BLV', 'n': 'Vanguard Long-Term Bond ETF', 'i': 'Fixed  
 Income', 'm': 5545060000}, {'s': 'BMAR', 'n': 'Innovator U.S. Equity Buffer ETF  
 - March', 'i': 'Equity', 'm': 182188160}, {'s': 'BMAY', 'n': 'Innovator U.S.  
 Equity Buffer ETF - May', 'i': 'Equity', 'm': 108813940}, {'s': 'BMED', 'n':  
 'Future Health ETF', 'i': 'Equity', 'm': 4070224}, {'s': 'BMVP', 'n': 'Invesco  
 Bloomberg MVP Multi-factor ETF', 'i': 'Equity', 'm': 98734720}, {'s': 'BND',  
 'n': 'Vanguard Total Bond Market ETF', 'i': 'Fixed Income', 'm': 104414230000},  
 {'s': 'BNDC', 'n': 'FlexShares Core Select Bond Fund Core Select Bond Fund',  
 'i': 'Fixed Income', 'm': 168800140}, {'s': 'BNDD', 'n': 'KraneShares Quadratic  
 Deflation ETF', 'i': 'Fixed Income', 'm': 29796100}, {'s': 'BNDI', 'n': 'NEOS  
 Enhanced Income Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 9764790}, {'s':  
 'BNDW', 'n': 'Vanguard Total World Bond ETF', 'i': 'Fixed Income', 'm':  
 771894000}, {'s': 'BNDX', 'n': 'Vanguard Total International Bond ETF', 'i':  
 'Fixed Income', 'm': 53478350000}, {'s': 'BNE', 'n': 'Blue Horizon BNE ETF',  
 'i': 'Equity', 'm': 5088645}, {'s': 'BNGE', 'n': 'First Trust S-Network  
 Streaming and Gaming ETF', 'i': 'Equity', 'm': 4982050}, {'s': 'BNO', 'n':  
 'United States Brent Oil Fund LP', 'i': 'Commodity', 'm': 133658100}, {'s':  
 'BNOV', 'n': 'Innovator U.S. Equity Buffer ETF - November', 'i': 'Equity', 'm':  
 105062360}, {'s': 'BOAT', 'n': 'SonicShares Global Shipping ETF', 'i': 'Equity',  
 'm': 44763384}, {'s': 'BOCT', 'n': 'Innovator U.S. Equity Buffer ETF - October',  
 'i': 'Equity', 'm': 170690000}, {'s': 'BOIL', 'n': 'ProShares Ultra Bloomberg  
 Natural Gas', 'i': 'Commodity', 'm': 539332900}, {'s': 'BOND', 'n': 'PIMCO  
 Active Bond Exchange-Traded Fund', 'i': 'Fixed Income', 'm': 4123923200}, {'s':  
 'BOTZ', 'n': 'Global X Robotics & Artificial Intelligence ETF', 'i': 'Equity',  
 'm': 2718412000}, {'s': 'BOUT', 'n': 'Innovator IBD Breakout Opportunities ETF',  
 'i': 'Equity', 'm': 13924000}, {'s': 'BOXX', 'n': 'Alpha Architect 1-3 Month Box  
 ETF', 'i': 'Fixed Income', 'm': 2199629600}, {'s': 'BPAY', 'n': 'BlackRock  
 Future Financial and Technology ETF', 'i': 'Equity', 'm': 4862260}, {'s':  
 'BRAZ', 'n': 'Global X Brazil Active ETF', 'i': 'Equity', 'm': 3430692.5}, {'s':  
 'BRF', 'n': 'VanEck Brazil Small-Cap ETF', 'i': 'Equity', 'm': 26781644}, {'s':  
 'BRLN', 'n': 'BlackRock Floating Rate Loan ETF', 'i': 'Fixed Income', 'm':  
 36559950}, {'s': 'BRNY', 'n': 'Burney U.S. Factor Rotation ETF Burney U.S.  
 Factor Rotation ETF', 'i': 'Equity', 'm': 227923000}, {'s': 'BRRR', 'n':  
 'Valkyrie Bitcoin Fund', 'i': 'Currency', 'm': 555143230}, {'s': 'BRTR', 'n':  
 'BlackRock Total Return ETF', 'i': 'Fixed Income', 'm': 79199200}, {'s': 'BRZU',  
 'n': 'Direxion Daily MSCI Brazil Bull 2X Shares', 'i': 'Equity', 'm': 95685544},  
 {'s': 'BSCO', 'n': 'Invesco BulletShares 2024 Corporate Bond ETF', 'i': 'Fixed  
 Income', 'm': 3448233200}, {'s': 'BSCP', 'n': 'Invesco Bulletshares 2025  
 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 3760627200}, {'s': 'BSCQ', 'n':  
 'Invesco BulletShares 2026 Corporate Bond ETF', 'i': 'Fixed Income', 'm':  
 2989706500}, {'s': 'BSCR', 'n': 'Invesco BulletShares 2027 Corporate Bond ETF',  
 'i': 'Fixed Income', 'm': 1754573400}, {'s': 'BSCS', 'n': 'Invesco BulletShares  
 2028 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 1524610400}, {'s': 'BSCT',  
 'n': 'Invesco BulletShares 2029 Corporate Bond ETF', 'i': 'Fixed Income', 'm':

861587140}, {'s': 'BSCU', 'n': 'Invesco BulletShares 2030 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 660805800}, {'s': 'BSCV', 'n': 'Invesco BulletShares 2031 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 419383800}, {'s': 'BSCW', 'n': 'Invesco BulletShares 2032 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 428673630}, {'s': 'BSCX', 'n': 'Invesco BulletShares 2033 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 227039420}, {'s': 'BSEP', 'n': 'Innovator U.S. Equity Buffer ETF - September', 'i': 'Equity', 'm': 150453000}, {'s': 'BSJO', 'n': 'Invesco BulletShares 2024 High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 685166300}, {'s': 'BSJP', 'n': 'Invesco BulletShares 2025 High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 842756800}, {'s': 'BSJQ', 'n': 'Invesco BulletShares 2026 High Yield Corp Bond ETF', 'i': 'Fixed Income', 'm': 488554020}, {'s': 'BSJR', 'n': 'Invesco BulletShares 2027 High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 189561220}, {'s': 'BSJS', 'n': 'Invesco BulletShares 2028 High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 173291420}, {'s': 'BSJT', 'n': 'Invesco BulletShares 2029 High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 52177520}, {'s': 'BSJU', 'n': 'Invesco BulletShares 2030 High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 45531024}, {'s': 'BSJV', 'n': 'Invesco BulletShares 2031 High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 23238026}, {'s': 'BSMC', 'n': 'Brandes U.S. Small-Mid Cap Value ETF', 'i': 'Equity', 'm': 46766160}, {'s': 'BSMO', 'n': 'Invesco BulletShares 2024 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 201090620}, {'s': 'BSMP', 'n': 'Invesco BulletShares 2025 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 216483630}, {'s': 'BSMQ', 'n': 'Invesco BulletShares 2026 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 178090820}, {'s': 'BSMR', 'n': 'Invesco BulletShares 2027 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 124364520}, {'s': 'BSMS', 'n': 'Invesco BulletShares 2028 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 99996520}, {'s': 'BSMT', 'n': 'Invesco BulletShares 2029 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 96453020}, {'s': 'BSMU', 'n': 'Invesco BulletShares 2030 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 82927420}, {'s': 'BSMV', 'n': 'Invesco BulletShares 2031 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 56724320}, {'s': 'BSMW', 'n': 'Invesco BulletShares 2032 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 62890024}, {'s': 'BSR', 'n': 'Beacon Selective Risk ETF', 'i': 'Asset Allocation', 'm': 28507500}, {'s': 'BSSX', 'n': 'Invesco BulletShares 2033 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 30919226}, {'s': 'BSTP', 'n': 'Innovator Buffer Step-Up Strategy ETF', 'i': 'Equity', 'm': 53445250}, {'s': 'BSV', 'n': 'Vanguard Short-Term Bond ETF', 'i': 'Fixed Income', 'm': 31803116000}, {'s': 'BSVO', 'n': 'EA Bridgeway Omni Small-Cap Value ETF', 'i': 'Equity', 'm': 1189794600}, {'s': 'BTAL', 'n': 'AGF U.S. Market Neutral Anti-Beta Fund', 'i': 'Alternatives', 'm': 219424480}, {'s': 'BTCO', 'n': 'Invesco Galaxy Bitcoin ETF', 'i': 'Currency', 'm': 423292450}, {'s': 'BTCW', 'n': 'WisdomTree Bitcoin Fund', 'i': 'Currency', 'm': 86207010}, {'s': 'BTEC', 'n': 'Principal Healthcare Innovators ETF', 'i': 'Equity', 'm': 43577740}, {'s': 'BTEK', 'n': 'Future Tech ETF', 'i': 'Equity', 'm': 15340440}, {'s': 'BTF', 'n': 'Valkyrie Bitcoin and Ether Strategy ETF', 'i': 'Currency', 'm': 56292300}, {'s': 'BTFX', 'n': 'Valkyrie Bitcoin Futures Leveraged Strategy ETF', 'i': 'Currency', 'm': 44038524}, {'s': 'BTHM', 'n': 'BlackRock Future U.S. Themes ETF', 'i': 'Equity', 'm': 7001016}, {'s': 'BTOP', 'n': 'Bitwise Bitcoin and Ether Equal Weight Strategy ETF', 'i': 'Currency',

'm': 10390608}, {'s': 'BTR', 'n': 'Beacon Tactical Risk ETF', 'i': 'Asset Allocation', 'm': 25936800}, {'s': 'BTRN', 'n': 'Global X Bitcoin Trend Strategy ETF', 'i': 'Currency', 'm': 2751537}, {'s': 'BUCK', 'n': 'Simplify Stable Income ETF', 'i': 'Fixed Income', 'm': 130255600}, {'s': 'BUFB', 'n': 'Innovator Laddered Allocation Buffer ETF', 'i': 'Equity', 'm': 106981500}, {'s': 'BUFC', 'n': 'AB Conservative Buffer ETF', 'i': 'Equity', 'm': 518273250}, {'s': 'BUFD', 'n': 'FT Vest Fund of Deep Buffer ETFs', 'i': 'Equity', 'm': 810292030}, {'s': 'BUFF', 'n': 'Innovator Laddered Allocation Power Buffer ETF', 'i': 'Equity', 'm': 405210000}, {'s': 'BUFG', 'n': 'FT Vest Buffered Allocation Growth ETF', 'i': 'Equity', 'm': 203767250}, {'s': 'BUFQ', 'n': 'FT Vest Fund of Nasdaq-100 Buffer ETFs', 'i': 'Equity', 'm': 533168060}, {'s': 'BUFR', 'n': 'FT Cboe Vest Fund of Buffer ETFs', 'i': 'Equity', 'm': 3787308000}, {'s': 'BUFT', 'n': 'FT Vest Buffered Allocation Defensive ETF', 'i': 'Equity', 'm': 104624840}, {'s': 'BUFZ', 'n': 'FT Vest Laddered Moderate Buffer ETF', 'i': 'Equity', 'm': 79822850}, {'s': 'BUG', 'n': 'Global X Cybersecurity ETF', 'i': 'Equity', 'm': 750352830}, {'s': 'BUL', 'n': 'Pacer US Cash Cows Growth ETF', 'i': 'Equity', 'm': 48063100}, {'s': 'BULD', 'n': 'Pacer BlueStar Engineering the Future ETF', 'i': 'Equity', 'm': 922800}, {'s': 'BUSA', 'n': 'Brandes U.S. Value ETF', 'i': 'Equity', 'm': 109229120}, {'s': 'BUXX', 'n': 'Strive Enhanced Income Short Maturity ETF', 'i': 'Fixed Income', 'm': 95617420}, {'s': 'BUYW', 'n': 'Main BuyWrite ETF', 'i': 'Equity', 'm': 439527900}, {'s': 'BUYZ', 'n': 'Franklin Disruptive Commerce Fund Franklin Disruptive Commerce Fund', 'i': 'Equity', 'm': 11172000}, {'s': 'BUZZ', 'n': 'VanEck Social Sentiment ETF', 'i': 'Equity', 'm': 64578076}, {'s': 'BWEB', 'n': 'Bitwise Web3 ETF', 'i': 'Equity', 'm': 2874944}, {'s': 'BWET', 'n': 'Breakwave Tanker Shipping ETF', 'i': 'Commodity', 'm': 3384035.2}, {'s': 'BWTG', 'n': 'Brendan Wood TopGun ETF', 'i': 'Equity', 'm': 5594940}, {'s': 'BWX', 'n': 'SPDR Bloomberg International Treasury Bond ETF', 'i': 'Fixed Income', 'm': 870764600}, {'s': 'BWZ', 'n': 'SPDR Bloomberg Short Term International Treasury Bond ETF', 'i': 'Fixed Income', 'm': 169231150}, {'s': 'BYLD', 'n': 'iShares Yield Optimized Bond ETF', 'i': 'Fixed Income', 'm': 169084430}, {'s': 'BYRE', 'n': 'Principal Real Estate Active Opportunities ETF', 'i': 'Equity', 'm': 8963222}, {'s': 'BZQ', 'n': 'ProShares UltraShort MSCI Brazil Capped', 'i': 'Equity', 'm': 7849934}, {'s': 'CA', 'n': 'Xtrackers California Municipal Bond ETF', 'i': 'Fixed Income', 'm': 22432524}, {'s': 'CAAA', 'n': 'First Trust Commercial Mortgage Opportunities ETF', 'i': 'Fixed Income', 'm': 15004540}, {'s': 'CACG', 'n': 'ClearBridge All Cap Growth ESG ETF', 'i': 'Equity', 'm': 124133650}, {'s': 'CAFG', 'n': 'Pacer US Small Cap Cash Cows Growth Leaders ETF', 'i': 'Equity', 'm': 8654925}, {'s': 'CALF', 'n': 'Pacer US Small Cap Cash Cows 100 ETF', 'i': 'Equity', 'm': 9613725000}, {'s': 'CALY', 'n': 'BlackRock Short-Term California Muni Bond ETF', 'i': 'Fixed Income', 'm': 20020240}, {'s': 'CAML', 'n': 'Congress Large Cap Growth ETF', 'i': 'Equity', 'm': 141232880}, {'s': 'CAMX', 'n': 'Cambiar Aggressive Value ETF', 'i': 'Equity', 'm': 58040864}, {'s': 'CANC', 'n': 'Tema Oncology ETF', 'i': 'Equity', 'm': 18237328}, {'s': 'CANE', 'n': 'Teucrium Sugar Fund', 'i': 'Commodity', 'm': 13502050}, {'s': 'CANQ', 'n': 'Calamos Alternative Nasdaq & Bond ETF', 'i': 'Asset Allocation', 'm': 1249525}, {'s': 'CAOS', 'n': 'Alpha Architect Tail Risk ETF', 'i': 'Asset Allocation', 'm': 184079520}, {'s': 'CAPE', 'n': 'DoubleLine Shiller CAPE U.S. Equities ETF', 'i': 'Equity', 'm':

383346600}, {'s': 'CARK', 'n': 'CastleArk Large Growth ETF', 'i': 'Equity', 'm': 342045950}, {'s': 'CARY', 'n': 'Angel Oak Income ETF', 'i': 'Fixed Income', 'm': 188273700}, {'s': 'CARZ', 'n': 'First Trust NASDAQ Global Auto Index Fund', 'i': 'Equity', 'm': 38246770}, {'s': 'CATH', 'n': 'Global X S&P 500 Catholic Values Custom ETF', 'i': 'Equity', 'm': 827804100}, {'s': 'CBLS', 'n': 'Clough Hedged Equity ETF', 'i': 'Alternatives', 'm': 11139168}, {'s': 'CBON', 'n': 'VanEck China Bond ETF', 'i': 'Fixed Income', 'm': 26301960}, {'s': 'CBSE', 'n': 'Clough Select Equity ETF', 'i': 'Equity', 'm': 12605610}, {'s': 'CCEF', 'n': 'Calamos CEF Income & Arbitrage ETF', 'i': 'Asset Allocation', 'm': 7659025.5}, {'s': 'CCMG', 'n': 'CCM Global Equity ETF', 'i': 'Equity', 'm': 849424500}, {'s': 'CCOR', 'n': 'Core Alternative ETF', 'i': 'Equity', 'm': 158514460}, {'s': 'CCRV', 'n': 'iShares Commodity Curve Carry Strategy ETF', 'i': 'Commodity', 'm': 48297040}, {'s': 'CCSO', 'n': 'Carbon Collective Climate Solutions U.S. Equity ETF', 'i': 'Equity', 'm': 26312824}, {'s': 'CDC', 'n': 'VictoryShares US EQ Income Enhanced Volatility Wtd ETF', 'i': 'Equity', 'm': 867535500}, {'s': 'CDEI', 'n': 'Calvert US Large-Cap Diversity, Equity and Inclusion Index ETF', 'i': 'Equity', 'm': 35299000}, {'s': 'CDL', 'n': 'VictoryShares US Large Cap High Dividend Volatility Wtd ETF', 'i': 'Equity', 'm': 340793300}, {'s': 'CDX', 'n': 'Simplify High Yield PLUS Credit Hedge ETF', 'i': 'Fixed Income', 'm': 106276800}, {'s': 'CEFA', 'n': 'Global X S&P Catholic Values Developed ex-US ETF', 'i': 'Equity', 'm': 17829886}, {'s': 'CEFS', 'n': 'Saba Closed-End Funds ETF', 'i': 'Asset Allocation', 'm': 185751520}, {'s': 'CEMB', 'n': 'iShares J.P. Morgan EM Corporate Bond ETF', 'i': 'Fixed Income', 'm': 425179140}, {'s': 'CETF', 'n': 'DriveWealth NYSE 100 Index ETF', 'i': 'Asset Allocation', 'm': 772934.1}, {'s': 'CEW', 'n': 'WisdomTree Emerging Currency Strategy Fund', 'i': 'Currency', 'm': 7141440}, {'s': 'CFA', 'n': 'VictoryShares US 500 Volatility Wtd ETF', 'i': 'Equity', 'm': 518232740}, {'s': 'CFCV', 'n': 'ClearBridge Focus Value ESG ETF', 'i': 'Equity', 'm': 3402659.8}, {'s': 'CF0', 'n': 'VictoryShares US 500 Enhanced Volatility Wtd ETF', 'i': 'Equity', 'm': 452175000}, {'s': 'CGBL', 'n': 'Capital Group Core Balanced ETF', 'i': 'Asset Allocation', 'm': 342616580}, {'s': 'CGCB', 'n': 'Capital Group Core Bond ETF', 'i': 'Fixed Income', 'm': 209127660}, {'s': 'CGCP', 'n': 'Capital Group Core Plus Income ETF', 'i': 'Fixed Income', 'm': 2093502100}, {'s': 'CGDG', 'n': 'Capital Group Dividend Growers ETF', 'i': 'Equity', 'm': 251674900}, {'s': 'CGDV', 'n': 'Capital Group Dividend Value ETF', 'i': 'Equity', 'm': 7097676300}, {'s': 'CGGO', 'n': 'Capital Group Global Growth Equity ETF', 'i': 'Equity', 'm': 3282572500}, {'s': 'CGGR', 'n': 'Capital Group Growth ETF', 'i': 'Equity', 'm': 5366568400}, {'s': 'CGIE', 'n': 'Capital Group International Equity ETF', 'i': 'Equity', 'm': 118321530}, {'s': 'CGMS', 'n': 'Capital Group U.S. Multi-Sector Income ETF', 'i': 'Fixed Income', 'm': 626894850}, {'s': 'CGMU', 'n': 'Capital Group Municipal Income ETF', 'i': 'Fixed Income', 'm': 655846300}, {'s': 'CGRO', 'n': 'CoreValues Alpha Greater China Growth ETF', 'i': 'Equity', 'm': 7584225}, {'s': 'CGSD', 'n': 'Capital Group Short Duration Income ETF', 'i': 'Fixed Income', 'm': 430801470}, {'s': 'CGSM', 'n': 'Capital Group Short Duration Municipal Income ETF', 'i': 'Fixed Income', 'm': 50772756}, {'s': 'CGUS', 'n': 'Capital Group Core Equity ETF', 'i': 'Equity', 'm': 2515362800}, {'s': 'CGV', 'n': 'Conductor Global Equity Value ETF', 'i': 'Equity', 'm': 102431704}, {'s': 'CGW', 'n': 'Invesco S&P Global Water Index ETF', 'i': 'Equity', 'm':

959715200}, {'s': 'CGXU', 'n': 'Capital Group International Focus Equity ETF',  
 'i': 'Equity', 'm': 2336214300}, {'s': 'CHAI', 'n': 'Defiance Israel Fixed  
 Income ETF', 'i': 'Fixed Income', 'm': 2453070}, {'s': 'CHAT', 'n': 'Roundhill  
 Generative AI & Technology ETF Roundhill Generative AI & Technology ETF', 'i':  
 'Equity', 'm': 145546500}, {'s': 'CHAU', 'n': 'Direxion Daily CSI 300 China A  
 Share Bull 2X Shares', 'i': 'Equity', 'm': 64112700}, {'s': 'CHGX', 'n': 'AXS  
 Change Finance ESG ETF', 'i': 'Equity', 'm': 123738500}, {'s': 'CHIQ', 'n':  
 'Global X MSCI China Consumer Discretionary ETF', 'i': 'Equity', 'm':  
 236185600}, {'s': 'CHPS', 'n': 'Xtrackers Semiconductor Select Equity ETF', 'i':  
 'Equity', 'm': 7468458}, {'s': 'CIBR', 'n': 'First Trust NASDAQ Cybersecurity  
 ETF', 'i': 'Equity', 'm': 6576164400}, {'s': 'CID', 'n': 'VictoryShares  
 International High Div Volatility Wtd ETF', 'i': 'Equity', 'm': 19088580}, {'s':  
 'CIL', 'n': 'VictoryShares International Volatility Wtd ETF', 'i': 'Equity',  
 'm': 92869700}, {'s': 'CIZ', 'n': 'VictoryShares Developed Enhanced Volatility  
 Wtd ETF', 'i': 'Equity', 'm': 36876720}, {'s': 'CLDL', 'n': 'Direxion Daily  
 Cloud Computing Bull 2X Shares', 'i': 'Equity', 'm': 5955411}, {'s': 'CLIA',  
 'n': 'Veridien Climate Action ETF Veridien Climate Action ETF', 'i': 'Equity',  
 'm': 23665158}, {'s': 'CLIP', 'n': 'Global X 1-3 Month T-Bill ETF', 'i': 'Fixed  
 Income', 'm': 368120350}, {'s': 'CLIX', 'n': 'ProShares Long Online/Short Stores  
 ETF', 'i': 'Equity', 'm': 10303909}, {'s': 'CLNR', 'n': 'IQ Cleaner Transport  
 ETF', 'i': 'Equity', 'm': 5760500}, {'s': 'CLOA', 'n': 'BlackRock AAA CLO ETF',  
 'i': 'Fixed Income', 'm': 211298830}, {'s': 'CLOD', 'n': 'Themes Cloud Computing  
 ETF', 'i': 'Equity', 'm': 1336955}, {'s': 'CLOI', 'n': 'VanEck CLO ETF', 'i':  
 'Fixed Income', 'm': 294836640}, {'s': 'CLOU', 'n': 'Global X Cloud Computing  
 ETF', 'i': 'Equity', 'm': 578031900}, {'s': 'CLOX', 'n': 'Panagram AAA CLO ETF',  
 'i': 'Fixed Income', 'm': 52087424}, {'s': 'CLOZ', 'n': 'Panagram BBB-B CLO  
 ETF', 'i': 'Fixed Income', 'm': 268559000}, {'s': 'CLSE', 'n': 'Convergence  
 Long/Short Equity ETF', 'i': 'Alternatives', 'm': 79899340}, {'s': 'CLSM', 'n':  
 'Cabana Target Leading Sector Moderate ETF', 'i': 'Asset Allocation', 'm':  
 190996800}, {'s': 'CMBS', 'n': 'iShares CMBS ETF', 'i': 'Fixed Income', 'm':  
 431438900}, {'s': 'CMCI', 'n': 'VanEck CMCI Commodity Strategy ETF', 'i':  
 'Commodity', 'm': 2573230}, {'s': 'CMDT', 'n': 'PIMCO Commodity Strategy Active  
 Exchange-Traded Fund Commodity Strategy Active Exchnage-Traded Fund', 'i':  
 'Commodity', 'm': 251850000}, {'s': 'CMDY', 'n': 'iShares Bloomberg Roll Select  
 Commodity Strategy ETF', 'i': 'Commodity', 'm': 232084590}, {'s': 'CMF', 'n':  
 'iShares California Muni Bond ETF', 'i': 'Fixed Income', 'm': 2760789800}, {'s':  
 'CNBS', 'n': 'Amplify Seymour Cannabis ETF', 'i': 'Equity', 'm': 35947784},  
 {'s': 'CNCR', 'n': 'Range Cancer Therapeutics ETF', 'i': 'Equity', 'm':  
 22828780}, {'s': 'CNEQ', 'n': 'Alger Concentrated Equity ETF', 'i': 'Equity',  
 'm': 3547600}, {'s': 'CNRG', 'n': 'SPDR S&P Kensho Clean Power ETF', 'i':  
 'Equity', 'm': 195468030}, {'s': 'CNXT', 'n': 'VanEck ChiNext ETF', 'i':  
 'Equity', 'm': 14784315}, {'s': 'CNYA', 'n': 'iShares MSCI China A ETF', 'i':  
 'Equity', 'm': 219980850}, {'s': 'COAL', 'n': 'Range Global Coal Index ETF',  
 'i': 'Equity', 'm': 4191747.8}, {'s': 'COM', 'n': 'Direxion Auspice Broad  
 Commodity Strategy ETF', 'i': 'Commodity', 'm': 262628830}, {'s': 'COMB', 'n':  
 'GraniteShares Bloomberg Commodity Broad Strategy No K-1 ETF', 'i': 'Commodity',  
 'm': 93093000}, {'s': 'COMT', 'n': 'iShares U.S. ETF Trust iShares GSCI  
 Commodity Dynamic Roll Strategy ETF', 'i': 'Commodity', 'm': 669964900}, {'s':

'CONL', 'n': 'GraniteShares 2x Long COIN Daily ETF', 'i': 'Equity', 'm': 456246080}, {'s': 'CONY', 'n': 'YieldMax COIN Option Income Strategy ETF', 'i': 'Equity', 'm': 439700640}, {'s': 'COPJ', 'n': 'Sprott Junior Copper Miners ETF', 'i': 'Equity', 'm': 8243809}, {'s': 'COPP', 'n': 'Sprott Copper Miners ETF', 'i': 'Equity', 'm': 21533378}, {'s': 'COPX', 'n': 'Global X Copper Miners ETF', 'i': 'Equity', 'm': 2152745500}, {'s': 'CORN', 'n': 'Teucrium Corn Fund', 'i': 'Commodity', 'm': 67827080}, {'s': 'CORP', 'n': 'PIMCO Investment Grade Corporate Bond Index Exchange-Traded Fund PIMCO Investment Grade Corporate Bond Index Exchange-Tra', 'i': 'Fixed Income', 'm': 1095080800}, {'s': 'COWG', 'n': 'Pacer US Large Cap Cash Cows Growth Leaders ETF', 'i': 'Equity', 'm': 123508720}, {'s': 'COWS', 'n': 'Amplify Cash Flow Dividend Leaders ETF', 'i': 'Equity', 'm': 16325288}, {'s': 'COWZ', 'n': 'Pacer US Cash Cows 100 ETF', 'i': 'Equity', 'm': 2301354000}, {'s': 'CPAI', 'n': 'Counterpoint Quantitative Equity ETF', 'i': 'Equity', 'm': 21513100}, {'s': 'CPER', 'n': 'United States Copper Index Fund', 'i': 'Commodity', 'm': 174230000}, {'s': 'CPII', 'n': 'Ionic Inflation Protection ETF', 'i': 'Fixed Income', 'm': 14381680}, {'s': 'CPLS', 'n': 'AB Core Plus Bond ETF', 'i': 'Fixed Income', 'm': 51825370}, {'s': 'CQQQ', 'n': 'Invesco China Technology ETF', 'i': 'Equity', 'm': 600582340}, {'s': 'CRAK', 'n': 'VanEck Oil Refiners ETF', 'i': 'Equity', 'm': 52326270}, {'s': 'CRBN', 'n': 'iShares MSCI ACWI Low Carbon Target ETF', 'i': 'Equity', 'm': 921997440}, {'s': 'CRDT', 'n': 'Simplify Opportunistic Income ETF', 'i': 'Fixed Income', 'm': 74865900}, {'s': 'CRED', 'n': 'Columbia Research Enhanced Real Estate ETF', 'i': 'Equity', 'm': 3031010}, {'s': 'CRIT', 'n': 'Optica Rare Earths & Critical Materials ETF', 'i': 'Equity', 'm': 2193424.2}, {'s': 'CRPT', 'n': 'First Trust SkyBridge Crypto Industry & Digital Economy ETF', 'i': 'Equity', 'm': 55118876}, {'s': 'CRTC', 'n': 'Xtrackers US National Critical Technologies ETF', 'i': 'Equity', 'm': 37991228}, {'s': 'CRUZ', 'n': 'Defiance Hotel Airline and Cruise ETF', 'i': 'Equity', 'm': 35450880}, {'s': 'CSA', 'n': 'VictoryShares US Small Cap Volatility Wtd ETF', 'i': 'Equity', 'm': 26624680}, {'s': 'CSB', 'n': 'VictoryShares US Small Cap High Dividend Volatility Wtd ETF', 'i': 'Equity', 'm': 304342340}, {'s': 'CSD', 'n': 'Invesco S&P Spin-Off ETF', 'i': 'Equity', 'm': 57542680}, {'s': 'CSF', 'n': 'VictoryShares US Discovery Enhanced Volatility Wtd ETF', 'i': 'Equity', 'm': 46953750}, {'s': 'CSHI', 'n': 'NEOS Enhanced Income 1-3 Month T-Bill ETF', 'i': 'Fixed Income', 'm': 358806880}, {'s': 'CSM', 'n': 'ProShares Large Cap Core Plus', 'i': 'Equity', 'm': 434149340}, {'s': 'CSMD', 'n': 'Congress SMid Growth ETF', 'i': 'Equity', 'm': 114784390}, {'s': 'CSML', 'n': 'IndexIQ ETF Trust IQ U.S. Small Cap ETF', 'i': 'Equity', 'm': 120044200}, {'s': 'CTA', 'n': 'Simplify Managed Futures Strategy ETF', 'i': 'Alternatives', 'm': 174761420}, {'s': 'CTEC', 'n': 'Global X CleanTech ETF', 'i': 'Equity', 'm': 49311260}, {'s': 'CTEX', 'n': 'ProShares S&P Kensho Cleantech ETF', 'i': 'Equity', 'm': 3350872.2}, {'s': 'CURE', 'n': 'Direxion Daily Healthcare Bull 3x Shares', 'i': 'Equity', 'm': 184058160}, {'s': 'CUT', 'n': 'Invesco MSCI Global Timber ETF', 'i': 'Equity', 'm': 59763600}, {'s': 'CVAR', 'n': 'Cultivar ETF', 'i': 'Equity', 'm': 30906750}, {'s': 'CVIE', 'n': 'Calvert International Responsible Index ETF', 'i': 'Equity', 'm': 88944000}, {'s': 'CVLC', 'n': 'Calvert US Large-Cap Core Responsible Index ETF', 'i': 'Equity', 'm': 290919230}, {'s': 'CVMC', 'n': 'Calvert US Mid-Cap Core Responsible Index ETF', 'i': 'Equity', 'm': 53200000}, {'s': 'CVRD', 'n':

'Madison Covered Call ETF', 'i': 'Equity', 'm': 76632270}, {'s': 'CVRT', 'n':  
 'Calamos Convertible Equity Alternative ETF', 'i': 'Fixed Income', 'm':  
 13750028}, {'s': 'CVSB', 'n': 'Calvert Ultra-Short Investment Grade ETF', 'i':  
 'Fixed Income', 'm': 51619000}, {'s': 'CVSE', 'n': 'Calvert US Select Equity  
 ETF', 'i': 'Equity', 'm': 28602800}, {'s': 'CVY', 'n': 'Invesco Zacks Multi-  
 Asset Income ETF', 'i': 'Asset Allocation', 'm': 114281304}, {'s': 'CWB', 'n':  
 'SPDR Bloomberg Convertible Securities ETF', 'i': 'Fixed Income', 'm':  
 3589520600}, {'s': 'CWEB', 'n': 'Direxion Daily CSI China Internet Index Bull 2x  
 Shares', 'i': 'Equity', 'm': 358006600}, {'s': 'CWI', 'n': 'SPDR MSCI ACWI ex-US  
 ETF', 'i': 'Equity', 'm': 1581183400}, {'s': 'CWS', 'n': 'AdvisorShares Focused  
 Equity ETF', 'i': 'Equity', 'm': 145365860}, {'s': 'CXSE', 'n': 'WisdomTree  
 China ex-State-Owned Enterprises Fund', 'i': 'Equity', 'm': 364870700}, {'s':  
 'CZA', 'n': 'Invesco Zacks Mid-Cap ETF', 'i': 'Equity', 'm': 197625220}, {'s':  
 'CZAR', 'n': 'Themes Natural Monopoly ETF', 'i': 'Equity', 'm': 541418}, {'s':  
 'DALI', 'n': 'First Trust Dorsey Wright DALI 1 ETF', 'i': 'Asset Allocation',  
 'm': 114862600}, {'s': 'DALT', 'n': 'Anfield Diversified Alternatives ETF', 'i':  
 'Alternatives', 'm': 45573500}, {'s': 'DAPP', 'n': 'VanEck Digital  
 Transformation ETF', 'i': 'Equity', 'm': 104844600}, {'s': 'DAPR', 'n': 'FT Vest  
 U.S. Equity Deep Buffer ETF - April', 'i': 'Equity', 'm': 172653580}, {'s':  
 'DARP', 'n': 'Grizzle Growth ETF', 'i': 'Equity', 'm': 13564980}, {'s': 'DAT',  
 'n': 'ProShares Big Data Refiners ETF', 'i': 'Equity', 'm': 5451426.5}, {'s':  
 'DAUG', 'n': 'FT Vest U.S. Equity Deep Buffer ETF - August', 'i': 'Equity', 'm':  
 298435940}, {'s': 'DAX', 'n': 'Global X DAX Germany ETF', 'i': 'Equity', 'm':  
 54199120}, {'s': 'DBA', 'n': 'Invesco DB Agriculture Fund', 'i': 'Commodity',  
 'm': 832116030}, {'s': 'DBAW', 'n': 'Xtrackers MSCI All World ex US Hedged  
 Equity ETF', 'i': 'Equity', 'm': 150594830}, {'s': 'DBB', 'n': 'Invesco DB Base  
 Metals Fund', 'i': 'Commodity', 'm': 133267380}, {'s': 'DBC', 'n': 'Invesco DB  
 Commodity Index Tracking Fund', 'i': 'Commodity', 'm': 1782376600}, {'s': 'DBE',  
 'n': 'Invesco DB Energy Fund', 'i': 'Commodity', 'm': 94666860}, {'s': 'DBEF',  
 'n': 'Xtrackers MSCI EAFE Hedged Equity ETF', 'i': 'Equity', 'm': 5525657000},  
 {'s': 'DBEH', 'n': 'iMGP DBi Hedge Strategy ETF', 'i': 'Alternatives', 'm':  
 35100000}, {'s': 'DBEM', 'n': 'Xtrackers MSCI Emerging Markets Hedged Equity  
 ETF', 'i': 'Equity', 'm': 105200424}, {'s': 'DBEU', 'n': 'Xtrackers MSCI Europe  
 Hedged Equity ETF', 'i': 'Equity', 'm': 531023330}, {'s': 'DBEZ', 'n':  
 'Xtrackers MSCI Eurozone Hedged Equity ETF', 'i': 'Equity', 'm': 38465096},  
 {'s': 'DBJP', 'n': 'Xtrackers MSCI Japan Hedged Equity ETF', 'i': 'Equity', 'm':  
 390174820}, {'s': 'DBMF', 'n': 'iMGP DBi Managed Futures Strategy ETF', 'i':  
 'Alternatives', 'm': 978620000}, {'s': 'DBND', 'n': 'DoubleLine Opportunistic  
 Bond ETF', 'i': 'Fixed Income', 'm': 266754750}, {'s': 'DBO', 'n': 'Invesco DB  
 Oil Fund', 'i': 'Commodity', 'm': 262169840}, {'s': 'DBP', 'n': 'Invesco DB  
 Precious Metals Fund', 'i': 'Commodity', 'm': 149577700}, {'s': 'DCMT', 'n':  
 'DoubleLine Commodity Strategy ETF', 'i': 'Commodity', 'm': 25488026}, {'s':  
 'DCOR', 'n': 'Dimensional US Core Equity 1 ETF', 'i': 'Equity', 'm': 442926560},  
 {'s': 'DCRE', 'n': 'DoubleLine Commercial Real Estate ETF', 'i': 'Fixed Income',  
 'm': 129286050}, {'s': 'DDEC', 'n': 'FT Vest US Equity Deep Buffer ETF -  
 December', 'i': 'Equity', 'm': 329772670}, {'s': 'DDIV', 'n': 'First Trust  
 Dorsey Wright Momentum & Dividend ETF', 'i': 'Equity', 'm': 44783616}, {'s':  
 'DDLS', 'n': 'WisdomTree Dynamic Currency Hedged International SmallCap Equity



Fund', 'i': 'Equity', 'm': 265274100}, {'s': 'DDM', 'n': 'ProShares Ultra  
 Dow30', 'i': 'Equity', 'm': 385432100}, {'s': 'DDWM', 'n': 'WisdomTree Dynamic  
 Currency Hedged International Equity Fund', 'i': 'Equity', 'm': 259115000},  
 {'s': 'DECT', 'n': 'AllianzIM U.S. Large Cap Buffer10 Dec ETF', 'i': 'Equity',  
 'm': 50301424}, {'s': 'DECW', 'n': 'AllianzIM U.S. Large Cap Buffer20 Dec ETF',  
 'i': 'Equity', 'm': 84104930}, {'s': 'DECZ', 'n': 'TrueShares Structured Outcome  
 (December) ETF', 'i': 'Equity', 'm': 45685960}, {'s': 'DEED', 'n': 'First Trust  
 TCW Securitized Plus ETF', 'i': 'Fixed Income', 'm': 60771040}, {'s': 'DEEF',  
 'n': 'Xtrackers FTSE Developed ex US Multifactor ETF', 'i': 'Equity', 'm':  
 58276028}, {'s': 'DEEP', 'n': 'Roundhill Acquirers Deep Value ETF', 'i':  
 'Equity', 'm': 34312700}, {'s': 'DEFI', 'n': 'Hashdex Bitcoin ETF', 'i':  
 'Currency', 'm': 12920096}, {'s': 'DEHP', 'n': 'Dimensional Emerging Markets  
 High Profitability ETF', 'i': 'Equity', 'm': 203621860}, {'s': 'DEM', 'n':  
 'WisdomTree Emerging Markets High Dividend Fund', 'i': 'Equity', 'm':  
 2859942000}, {'s': 'DEMZ', 'n': 'Democratic Large Cap Core ETF', 'i': 'Equity',  
 'm': 33388300}, {'s': 'DES', 'n': 'WisdomTree U.S. SmallCap Dividend Fund', 'i':  
 'Equity', 'm': 1879355900}, {'s': 'DESK', 'n': 'VanEck Office and Commercial  
 REIT ETF', 'i': 'Equity', 'm': 1073349}, {'s': 'DEUS', 'n': 'Xtrackers Russell  
 US Multifactor ETF', 'i': 'Equity', 'm': 154726540}, {'s': 'DEW', 'n':  
 'WisdomTree Global High Dividend Fund', 'i': 'Equity', 'm': 106792430}, {'s':  
 'DFAC', 'n': 'Dimensional U.S. Core Equity 2 ETF', 'i': 'Equity', 'm':  
 27019180000}, {'s': 'DFAE', 'n': 'Dimensional Emerging Core Equity Market ETF',  
 'i': 'Equity', 'm': 3796049000}, {'s': 'DFAI', 'n': 'Dimensional International  
 Core Equity Market ETF', 'i': 'Equity', 'm': 5645017600}, {'s': 'DFAR', 'n':  
 'Dimensional US Real Estate ETF', 'i': 'Equity', 'm': 939782850}, {'s': 'DFAS',  
 'n': 'Dimensional U.S. Small Cap ETF', 'i': 'Equity', 'm': 7782666000}, {'s':  
 'DFAT', 'n': 'Dimensional U.S. Targeted Value ETF', 'i': 'Equity', 'm':  
 9666518000}, {'s': 'DFAU', 'n': 'Dimensional US Core Equity Market ETF', 'i':  
 'Equity', 'm': 5386457000}, {'s': 'DFAW', 'n': 'Dimensional World Equity ETF',  
 'i': 'Equity', 'm': 346470270}, {'s': 'DFAX', 'n': 'Dimensional World ex U.S.  
 Core Equity 2 ETF', 'i': 'Equity', 'm': 6641645000}, {'s': 'DFCA', 'n':  
 'Dimensional California Municipal Bond ETF', 'i': 'Fixed Income', 'm':  
 260618800}, {'s': 'DFCF', 'n': 'Dimensional Core Fixed Income ETF', 'i': 'Fixed  
 Income', 'm': 4717686300}, {'s': 'DFE', 'n': 'WisdomTree Europe SmallCap  
 Dividend Fund', 'i': 'Equity', 'm': 186812020}, {'s': 'DFEB', 'n': 'FT Vest U.S.  
 Equity Deep Buffer ETF - February', 'i': 'Equity', 'm': 281117600}, {'s':  
 'DFEM', 'n': 'Dimensional Emerging Markets Core Equity 2 ETF', 'i': 'Equity',  
 'm': 3550388500}, {'s': 'DFEN', 'n': 'Direxion Daily Aerospace & Defense Bull 3X  
 Shares', 'i': 'Equity', 'm': 154609420}, {'s': 'DFEV', 'n': 'Dimensional  
 Emerging Markets Value ETF', 'i': 'Equity', 'm': 578541060}, {'s': 'DFGP', 'n':  
 'Dimensional Global Core Plus Fixed Income ETF', 'i': 'Fixed Income', 'm':  
 602468900}, {'s': 'DFGR', 'n': 'Dimensional Global Real Estate ETF', 'i':  
 'Equity', 'm': 1567604500}, {'s': 'DFGX', 'n': 'Dimensional Global ex US Core  
 Fixed Income ETF', 'i': 'Fixed Income', 'm': 245474900}, {'s': 'DFHY', 'n':  
 'Donoghue Forlines Tactical High Yield ETF', 'i': 'Fixed Income', 'm':  
 30707730}, {'s': 'DFIC', 'n': 'Dimensional International Core Equity 2 ETF',  
 'i': 'Equity', 'm': 5807097300}, {'s': 'DFIP', 'n': 'Dimensional Inflation-  
 Protected Securities ETF', 'i': 'Fixed Income', 'm': 500643070}, {'s': 'DFIS',

'n': 'Dimensional International Small Cap ETF', 'i': 'Equity', 'm': 1564832000},  
{'s': 'DFIV', 'n': 'Dimensional International Value ETF', 'i': 'Equity', 'm':  
7132420600}, {'s': 'DFJ', 'n': 'WisdomTree Japan SmallCap Dividend Fund', 'i':  
'Equity', 'm': 245594880}, {'s': 'DFLV', 'n': 'Dimensional US Large Cap Value  
ETF', 'i': 'Equity', 'm': 1752708100}, {'s': 'DFND', 'n': 'Siren DIVCON Dividend  
Defender ETF', 'i': 'Equity', 'm': 10301312}, {'s': 'DFNL', 'n': 'Davis Select  
Financial ETF', 'i': 'Equity', 'm': 182113280}, {'s': 'DFNM', 'n': 'Dimensional  
National Municipal Bond ETF', 'i': 'Fixed Income', 'm': 1225421000}, {'s':  
'DFNV', 'n': 'Donoghue Forlines Innovation ETF', 'i': 'Equity', 'm': 44829230},  
{'s': 'DFRA', 'n': 'Donoghue Forlines Yield Enhanced Real Asset ETF', 'i':  
'Equity', 'm': 45374096}, {'s': 'DFSB', 'n': 'Dimensional Global Sustainability  
Fixed Income ETF', 'i': 'Fixed Income', 'm': 289650050}, {'s': 'DFSD', 'n':  
'Dimensional Short-Duration Fixed Income ETF', 'i': 'Fixed Income', 'm':  
2581644300}, {'s': 'DFSE', 'n': 'Dimensional Emerging Markets Sustainability  
Core 1 ETF', 'i': 'Equity', 'm': 237250740}, {'s': 'DFSI', 'n': 'Dimensional  
International Sustainability Core 1 ETF', 'i': 'Equity', 'm': 404494100}, {'s':  
'DFSU', 'n': 'Dimensional US Sustainability Core 1 ETF', 'i': 'Equity', 'm':  
924974400}, {'s': 'DFSV', 'n': 'Dimensional US Small Cap Value ETF', 'i':  
'Equity', 'm': 2836267300}, {'s': 'DFUS', 'n': 'Dimensional U.S. Equity ETF',  
'i': 'Equity', 'm': 8907267000}, {'s': 'DFUV', 'n': 'Dimensional US Marketwide  
Value ETF', 'i': 'Equity', 'm': 10407883000}, {'s': 'DFVE', 'n': 'DoubleLine  
Fortune 500 Equal Weight ETF', 'i': 'Equity', 'm': 12811227}, {'s': 'DFVX', 'n':  
'Dimensional US Large Cap Vector ETF', 'i': 'Equity', 'm': 170474430}, {'s':  
'DGCB', 'n': 'Dimensional Global Credit ETF', 'i': 'Fixed Income', 'm':  
205765380}, {'s': 'DGIN', 'n': 'VanEck Digital India ETF', 'i': 'Equity', 'm':  
24233124}, {'s': 'DGRE', 'n': 'WisdomTree Emerging Markets Quality Dividend  
Growth Fund', 'i': 'Equity', 'm': 136377470}, {'s': 'DGR0', 'n': 'iShares Core  
Dividend Growth ETF', 'i': 'Equity', 'm': 26631617000}, {'s': 'DGRS', 'n':  
'WisdomTree US Smallcap Quality Dividend Growth Fund', 'i': 'Equity', 'm':  
338115070}, {'s': 'DGRW', 'n': 'WisdomTree US Quality Dividend Growth Fund',  
'i': 'Equity', 'm': 12500983000}, {'s': 'DGS', 'n': 'WisdomTree Emerging Markets  
SmallCap Dividend Fund', 'i': 'Equity', 'm': 2734550800}, {'s': 'DGT', 'n':  
'SPDR Global Dow ETF', 'i': 'Equity', 'm': 195312430}, {'s': 'DHS', 'n':  
'WisdomTree U.S. High Dividend Fund', 'i': 'Equity', 'm': 1067349900}, {'s':  
'DIA', 'n': 'SPDR Dow Jones Industrial Average ETF Trust', 'i': 'Equity', 'm':  
32627028000}, {'s': 'DIAL', 'n': 'Columbia Diversified Fixed Income Allocation  
ETF', 'i': 'Fixed Income', 'm': 406523500}, {'s': 'DIEM', 'n': 'Franklin  
Emerging Market Core Dividend Tilt Index ETF Franklin LibertyQ Emerging  
Markets', 'i': 'Equity', 'm': 13045000}, {'s': 'DIG', 'n': 'ProShares Ultra  
Energy', 'i': 'Equity', 'm': 134792940}, {'s': 'DIHP', 'n': 'Dimensional  
International High Profitability ETF', 'i': 'Equity', 'm': 2037997400}, {'s':  
'DIM', 'n': 'WisdomTree International MidCap Dividend Fund', 'i': 'Equity', 'm':  
132739710}, {'s': 'DINT', 'n': 'Davis Select International ETF', 'i': 'Equity',  
'm': 168562430}, {'s': 'DIP', 'n': 'BTD Capital Fund', 'i': 'Equity', 'm':  
1112800}, {'s': 'DIS0', 'n': 'YieldMax DIS Option Income Strategy ETF', 'i':  
'Equity', 'm': 13136625}, {'s': 'DISV', 'n': 'Dimensional International Small  
Cap Value ETF', 'i': 'Equity', 'm': 1806516100}, {'s': 'DIV', 'n': 'Global X  
SuperDividend US ETF', 'i': 'Equity', 'm': 606941250}, {'s': 'DIVB', 'n':

'iShares Core Dividend ETF', 'i': 'Equity', 'm': 338298720}, {'s': 'DIVD', 'n':  
 'Altrius Global Dividend ETF Altrius Global Divid ETF', 'i': 'Equity', 'm':  
 6881091}, {'s': 'DIVG', 'n': 'Invesco S&P 500 High Dividend Growers ETF', 'i':  
 'Equity', 'm': 2739727.5}, {'s': 'DIVI', 'n': 'Franklin International Core  
 Dividend Tilt Index Fund Franklin LibertyQ International Equity Hedged', 'i':  
 'Equity', 'm': 766648000}, {'s': 'DIVL', 'n': 'Madison Dividend Value ETF', 'i':  
 'Equity', 'm': 65184960}, {'s': 'DIVO', 'n': 'Amplify CWP Enhanced Dividend  
 Income ETF', 'i': 'Equity', 'm': 3119820000}, {'s': 'DIVP', 'n': 'Cullen  
 Enhanced Equity Income ETF', 'i': 'Equity', 'm': 6355296.5}, {'s': 'DIVS', 'n':  
 'SmartETFs Dividend Builder ETF', 'i': 'Equity', 'm': 31258882}, {'s': 'DIVY',  
 'n': 'Sound Equity Dividend Income ETF', 'i': 'Equity', 'm': 26675830}, {'s':  
 'DIVZ', 'n': 'Opal Dividend Income ETF', 'i': 'Equity', 'm': 63926030}, {'s':  
 'DJAN', 'n': 'FT Vest US Equity Deep Buffer ETF - January', 'i': 'Equity', 'm':  
 265131330}, {'s': 'DJD', 'n': 'Invesco Dow Jones Industrial Average Dividend  
 ETF', 'i': 'Equity', 'm': 295026180}, {'s': 'DJIA', 'n': 'Global X Dow 30  
 Covered Call ETF', 'i': 'Equity', 'm': 82955030}, {'s': 'DJUL', 'n': 'FT Vest  
 U.S. Equity Deep Buffer ETF - July', 'i': 'Equity', 'm': 337513820}, {'s':  
 'DJUN', 'n': 'FT Vest U.S. Equity Deep Buffer ETF - June', 'i': 'Equity', 'm':  
 183825280}, {'s': 'DLN', 'n': 'WisdomTree U.S. LargeCap Dividend Fund', 'i':  
 'Equity', 'm': 3931111000}, {'s': 'DLS', 'n': 'WisdomTree International SmallCap  
 Dividend Fund', 'i': 'Equity', 'm': 1080565900}, {'s': 'DMAR', 'n': 'FT Vest US  
 Equity Deep Buffer ETF - March', 'i': 'Equity', 'm': 320180480}, {'s': 'DMAT',  
 'n': 'Global X Disruptive Materials ETF', 'i': 'Equity', 'm': 6815091}, {'s':  
 'DMAY', 'n': 'FT Vest U.S. Equity Deep Buffer ETF - May', 'i': 'Equity', 'm':  
 147497020}, {'s': 'DMBS', 'n': 'DoubleLine Mortgage ETF', 'i': 'Fixed Income',  
 'm': 296088030}, {'s': 'DMCY', 'n': 'Democracy International Fund ETF', 'i':  
 'Equity', 'm': 7602427.5}, {'s': 'DMDV', 'n': 'AAM S&P Developed Markets High  
 Dividend Value ETF', 'i': 'Equity', 'm': 2002500}, {'s': 'DMXF', 'n': 'iShares  
 ESG Advanced MSCI EAFE ETF', 'i': 'Equity', 'm': 641476800}, {'s': 'DNL', 'n':  
 'WisdomTree Global ex-US Quality Dividend Growth Fund', 'i': 'Equity', 'm':  
 638127600}, {'s': 'DNOV', 'n': 'FT Vest U.S. Equity Deep Buffer ETF - November',  
 'i': 'Equity', 'm': 258709140}, {'s': 'DOCT', 'n': 'FT Vest U.S. Equity Deep  
 Buffer ETF - October', 'i': 'Equity', 'm': 187985070}, {'s': 'DOG', 'n':  
 'ProShares Short Dow30', 'i': 'Equity', 'm': 182731940}, {'s': 'DOGG', 'n': 'FT  
 Vest DJIA Dogs 10 Target Income ETF', 'i': 'Equity', 'm': 29878742}, {'s':  
 'DOL', 'n': 'WisdomTree International LargeCap Dividend Fund', 'i': 'Equity',  
 'm': 506982000}, {'s': 'DON', 'n': 'WisdomTree U.S. MidCap Dividend Fund', 'i':  
 'Equity', 'm': 3519811600}, {'s': 'DPST', 'n': 'Direxion Daily Regional Banks  
 Bull 3X Shares', 'i': 'Equity', 'm': 649351400}, {'s': 'DRIP', 'n': 'Direxion  
 Daily S&P Oil & Gas Exp. & Prod. Bear 2X Shares', 'i': 'Equity', 'm': 53394380},  
 {'s': 'DRIV', 'n': 'Global X Autonomous & Electric Vehicles ETF', 'i': 'Equity',  
 'm': 574133760}, {'s': 'DRLL', 'n': 'Strive U.S. Energy ETF', 'i': 'Equity',  
 'm': 359591740}, {'s': 'DRN', 'n': 'Direxion Daily Real Estate Bull 3x Shares',  
 'i': 'Equity', 'm': 62315400}, {'s': 'DRSK', 'n': 'Aptus Defined Risk ETF', 'i':  
 'Asset Allocation', 'm': 465687000}, {'s': 'DRUP', 'n': 'GraniteShares Nasdaq  
 Select Disruptors ETF', 'i': 'Equity', 'm': 58017500}, {'s': 'DRV', 'n':  
 'Direxion Daily Real Estate Bear 3X Shares', 'i': 'Equity', 'm': 104005224},  
 {'s': 'DSCF', 'n': 'Discipline Fund ETF', 'i': 'Asset Allocation', 'm':

40627200}, {'s': 'DSEP', 'n': 'FT Vest U.S. Equity Deep Buffer ETF - September', 'i': 'Equity', 'm': 181039420}, {'s': 'DSI', 'n': 'iShares MSCI KLD 400 Social ETF', 'i': 'Equity', 'm': 4394931000}, {'s': 'DSMC', 'n': 'Distillate Small/Mid Cash Flow ETF', 'i': 'Equity', 'm': 61809684}, {'s': 'DSTL', 'n': 'Distillate US Fundamental Stability & Value ETF', 'i': 'Equity', 'm': 1756823900}, {'s': 'DSTX', 'n': 'Distillate International Fundamental Stability & Value ETF', 'i': 'Equity', 'm': 35207740}, {'s': 'DTCR', 'n': 'Global X Data Center And Digital Infrastructure ETF', 'i': 'Equity', 'm': 60455376}, {'s': 'DTD', 'n': 'WisdomTree U.S. Total Dividend Fund', 'i': 'Equity', 'm': 1193525200}, {'s': 'DTEC', 'n': 'ALPS Disruptive Technologies ETF', 'i': 'Equity', 'm': 97778830}, {'s': 'DTH', 'n': 'WisdomTree International High Dividend Fund', 'i': 'Equity', 'm': 336290100}, {'s': 'DTRE', 'n': 'First Trust Alerian Disruptive Technology Real Estate ETF', 'i': 'Equity', 'm': 17549502}, {'s': 'DUBS', 'n': 'Aptus Large Cap Enhanced Yield ETF', 'i': 'Equity', 'm': 142394000}, {'s': 'DUG', 'n': 'ProShares UltraShort Energy', 'i': 'Equity', 'm': 19650902}, {'s': 'DUHP', 'n': 'Dimensional US High Profitability ETF', 'i': 'Equity', 'm': 5164366000}, {'s': 'DURA', 'n': 'VanEck Durable High Dividend ETF', 'i': 'Equity', 'm': 57166300}, {'s': 'DUSA', 'n': 'Davis Select U.S. Equity ETF', 'i': 'Equity', 'm': 489389730}, {'s': 'DUSB', 'n': 'Dimensional Ultrashort Fixed Income ETF', 'i': 'Fixed Income', 'm': 339208260}, {'s': 'DUSL', 'n': 'Direxion Daily Industrials Bull 3X Shares', 'i': 'Equity', 'm': 37660052}, {'s': 'DUST', 'n': 'Direxion Daily Gold Miners Index Bear 2x Shares', 'i': 'Equity', 'm': 143760140}, {'s': 'DVAL', 'n': 'BrandywineGLOBAL - Dynamic US Large Cap Value ETF', 'i': 'Equity', 'm': 161211330}, {'s': 'DVDN', 'n': 'Kingsbarn Dividend Opportunity ETF', 'i': 'Equity', 'm': 561538}, {'s': 'DVLU', 'n': 'First Trust Dorsey Wright Momentum & Value ETF', 'i': 'Equity', 'm': 26014558}, {'s': 'DVND', 'n': 'Touchstone Dividend Select ETF', 'i': 'Equity', 'm': 32079300}, {'s': 'DVOL', 'n': 'First Trust Dorsey Wright Momentum & Low Volatility ETF', 'i': 'Equity', 'm': 47529660}, {'s': 'DVY', 'n': 'iShares Select Dividend ETF', 'i': 'Equity', 'm': 18238728000}, {'s': 'DVYA', 'n': 'iShares Asia/Pacific Dividend ETF', 'i': 'Equity', 'm': 41953150}, {'s': 'DVYE', 'n': 'iShares Emerging Markets Dividend ETF', 'i': 'Equity', 'm': 696499840}, {'s': 'DWAS', 'n': 'Invesco Dorsey Wright SmallCap Momentum ETF', 'i': 'Equity', 'm': 905661300}, {'s': 'DWAT', 'n': 'Arrow DWA Tactical: Macro ETF', 'i': 'Asset Allocation', 'm': 3252000}, {'s': 'DWAU', 'n': 'AdvisorShares Dorsey Wright FSM All Cap World ETF', 'i': 'Equity', 'm': 77223144}, {'s': 'DWCR', 'n': 'Arrow DWA Tactical: International ETF', 'i': 'Equity', 'm': 7682500}, {'s': 'DWLD', 'n': 'Davis Select Worldwide ETF', 'i': 'Equity', 'm': 297508860}, {'s': 'DWM', 'n': 'WisdomTree International Equity Fund', 'i': 'Equity', 'm': 557404400}, {'s': 'DWMF', 'n': 'WisdomTree International Multifactor Fund', 'i': 'Equity', 'm': 41802720}, {'s': 'DWSH', 'n': 'AdvisorShares Dorsey Wright Short ETF', 'i': 'Equity', 'm': 11955715}, {'s': 'DWUS', 'n': 'AdvisorShares Dorsey Wright FSM US Core ETF', 'i': 'Equity', 'm': 105180910}, {'s': 'DWX', 'n': 'SPDR S&P International Dividend ETF', 'i': 'Equity', 'm': 448052100}, {'s': 'DXD', 'n': 'ProShares UltraShort Dow30', 'i': 'Equity', 'm': 79570410}, {'s': 'DXJ', 'n': 'WisdomTree Japan Hedged Equity Fund', 'i': 'Equity', 'm': 4782228500}, {'s': 'DXJS', 'n': 'WisdomTree Japan Hedged SmallCap Equity Fund', 'i': 'Equity', 'm': 67329400}, {'s': 'DYFI', 'n': 'IDX Dynamic Fixed Income ETF', 'i': 'Fixed Income', 'm': 26687668}, {'s':

'DYLD', 'n': 'LeaderShares Dynamic Yield ETF', 'i': 'Fixed Income', 'm': 72735000}, {'s': 'DYLG', 'n': 'Global X Dow 30 Covered Call & Growth ETF', 'i': 'Equity', 'm': 2721126.5}, {'s': 'DYNF', 'n': 'BlackRock U.S. Equity Factor Rotation ETF', 'i': 'Equity', 'm': 7420985000}, {'s': 'DYNL', 'n': 'IDX Dynamic Innovation ETF', 'i': 'Equity', 'm': 38325070}, {'s': 'DYTA', 'n': 'SGI Dynamic Tactical ETF', 'i': 'Equity', 'm': 59599440}, {'s': 'EAFG', 'n': 'Pacer Developed Markets Cash Cows Growth Leaders ETF', 'i': 'Equity', 'm': 978250}, {'s': 'EAGG', 'n': 'iShares ESG Aware US Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 3525224000}, {'s': 'EAGL', 'n': 'Eagle Capital Select Equity ETF', 'i': 'Equity', 'm': 1799399000}, {'s': 'EALT', 'n': 'Innovator U.S. Equity 5 to 15 Buffer ETF - Quarterly', 'i': 'Equity', 'm': 38113890}, {'s': 'EAOA', 'n': 'iShares ESG Aware Aggressive Allocation ETF', 'i': 'Asset Allocation', 'm': 27633082}, {'s': 'EAOK', 'n': 'iShares ESG Aware Conservative Allocation ETF', 'i': 'Asset Allocation', 'm': 7425066.5}, {'s': 'EAOM', 'n': 'iShares ESG Aware Moderate Allocation ETF', 'i': 'Asset Allocation', 'm': 5943569.5}, {'s': 'EAOR', 'n': 'iShares ESG Aware Growth Allocation ETF', 'i': 'Asset Allocation', 'm': 18614872}, {'s': 'EAPR', 'n': 'Innovator Emerging Markets Power Buffer ETF - April', 'i': 'Equity', 'm': 81672500}, {'s': 'EASG', 'n': 'Xtrackers MSCI EAFE ESG Leaders Equity ETF', 'i': 'Equity', 'm': 48696030}, {'s': 'EATV', 'n': 'VegTech Plant-based Innovation & Climate ETF', 'i': 'Equity', 'm': 5722135.5}, {'s': 'EATZ', 'n': 'AdvisorShares Restaurant ETF', 'i': 'Equity', 'm': 2963875}, {'s': 'EBIZ', 'n': 'Global X E-Commerce ETF', 'i': 'Equity', 'm': 72023544}, {'s': 'EBLU', 'n': 'Ecofin Global Water ESG Fund', 'i': 'Equity', 'm': 52147670}, {'s': 'EBND', 'n': 'SPDR Bloomberg Emerging Markets Local Bond ETF', 'i': 'Fixed Income', 'm': 1967284500}, {'s': 'ECH', 'n': 'iShares MSCI Chile ETF', 'i': 'Equity', 'm': 604250240}, {'s': 'ECLN', 'n': 'First Trust EIP Carbon Impact ETF', 'i': 'Equity', 'm': 26589248}, {'s': 'ECML', 'n': 'Euclidean Fundamental Value ETF', 'i': 'Equity', 'm': 182031020}, {'s': 'ECNS', 'n': 'iShares MSCI China Small-Cap ETF', 'i': 'Equity', 'm': 52836080}, {'s': 'ECON', 'n': 'Columbia Emerging Markets Consumer ETF', 'i': 'Equity', 'm': 59337000}, {'s': 'ECOW', 'n': 'Pacer Emerging Markets Cash Cows 100 ETF', 'i': 'Equity', 'm': 92998360}, {'s': 'EDC', 'n': 'Direxion Daily MSCI Emerging Markets Bull 3x Shares', 'i': 'Equity', 'm': 83274344}, {'s': 'EDEN', 'n': 'iShares MSCI Denmark ETF', 'i': 'Equity', 'm': 288359040}, {'s': 'EDIV', 'n': 'SPDR S&P Emerging Markets Dividend ETF', 'i': 'Equity', 'm': 374143360}, {'s': 'EDOC', 'n': 'Global X Telemedicine & Digital Health ETF Registered', 'i': 'Equity', 'm': 50348490}, {'s': 'EDOG', 'n': 'ALPS Emerging Sector Dividend Dogs ETF', 'i': 'Equity', 'm': 26325250}, {'s': 'EDOW', 'n': 'First Trust Dow 30 Equal Weight ETF', 'i': 'Equity', 'm': 237242500}, {'s': 'EDV', 'n': 'Vanguard Extended Duration Treasury ETF', 'i': 'Fixed Income', 'm': 3054948900}, {'s': 'EDZ', 'n': 'Direxion Daily MSCI Emerging Markets Bear 3X Shares', 'i': 'Equity', 'm': 20789784}, {'s': 'EELV', 'n': 'Invesco S&P Emerging Markets Low Volatility ETF', 'i': 'Equity', 'm': 458514600}, {'s': 'EEM', 'n': 'iShares MSCI Emerging Markets ETF', 'i': 'Equity', 'm': 18443860000}, {'s': 'EEMA', 'n': 'iShares MSCI Emerging Markets Asia ETF', 'i': 'Equity', 'm': 415282200}, {'s': 'EEMD', 'n': 'AAM S&P Emerging Markets High Dividend Value ETF', 'i': 'Equity', 'm': 7838020}, {'s': 'EEMO', 'n': 'Invesco S&P Emerging Markets Momentum ETF', 'i': 'Equity', 'm': 6499600}, {'s': 'EEMS', 'n': 'iShares MSCI Emerging Markets Small

Cap ETF', 'i': 'Equity', 'm': 369806430}, {'s': 'EEMV', 'n': 'iShares MSCI  
 Emerging Markets Min Vol Factor ETF', 'i': 'Equity', 'm': 4428302000}, {'s':  
 'EEMX', 'n': 'SPDR MSCI Emerging Markets Fossil Fuel Free ETF', 'i': 'Equity',  
 'm': 82299530}, {'s': 'EES', 'n': 'WisdomTree U.S. SmallCap Fund', 'i':  
 'Equity', 'm': 622134850}, {'s': 'EET', 'n': 'ProShares Ultra MSCI Emerging  
 Markets', 'i': 'Equity', 'm': 15670710}, {'s': 'EETH', 'n': 'ProShares Ether  
 Strategy ETF', 'i': 'Currency', 'm': 72237470}, {'s': 'EEV', 'n': 'ProShares  
 UltraShort MSCI Emerging Markets', 'i': 'Equity', 'm': 5240895}, {'s': 'EFA',  
 'n': 'iShares MSCI EAFE ETF', 'i': 'Equity', 'm': 52548067000}, {'s': 'EFAD',  
 'n': 'ProShares MSCI EAFE Dividend Growers ETF', 'i': 'Equity', 'm': 81407576},  
 {'s': 'EFAS', 'n': 'Global X MSCI SuperDividend EAFE ETF', 'i': 'Equity', 'm':  
 11507055}, {'s': 'EFAV', 'n': 'iShares MSCI EAFE Min Vol Factor ETF', 'i':  
 'Equity', 'm': 6840263700}, {'s': 'EFAX', 'n': 'SPDR MSCI EAFE Fossil Fuel Free  
 ETF', 'i': 'Equity', 'm': 274257760}, {'s': 'EFG', 'n': 'iShares MSCI EAFE  
 Growth ETF', 'i': 'Equity', 'm': 11912728000}, {'s': 'EFIV', 'n': 'SPDR S&P 500  
 ESG ETF', 'i': 'Equity', 'm': 1165169900}, {'s': 'EFIX', 'n': 'First Trust TCW  
 Emerging Markets Debt ETF', 'i': 'Fixed Income', 'm': 36813830}, {'s': 'EFNL',  
 'n': 'iShares MSCI Finland ETF', 'i': 'Equity', 'm': 17713550}, {'s': 'EFO',  
 'n': 'ProShares Ultra MSCI EAFE', 'i': 'Equity', 'm': 10174928}, {'s': 'EFRA',  
 'n': 'iShares Environmental Infrastructure and Industrials ETF', 'i': 'Equity',  
 'm': 4832992}, {'s': 'EFU', 'n': 'ProShares UltraShort MSCI EAFE', 'i':  
 'Equity', 'm': 682935.06}, {'s': 'EFUT', 'n': 'VanEck Ethereum Strategy ETF',  
 'i': 'Currency', 'm': 30584070}, {'s': 'EFV', 'n': 'iShares MSCI EAFE Value  
 ETF', 'i': 'Equity', 'm': 16785288000}, {'s': 'EFZ', 'n': 'ProShares Short MSCI  
 EAFE', 'i': 'Equity', 'm': 25373102}, {'s': 'EGUS', 'n': 'iShares ESG Aware MSCI  
 USA Growth ETF', 'i': 'Equity', 'm': 5985233.5}, {'s': 'EHLS', 'n': 'Even Herd  
 Long Short ETF', 'i': 'Alternatives', 'm': 45490020}, {'s': 'EIDO', 'n':  
 'iShares MSCI Indonesia ETF', 'i': 'Equity', 'm': 492011940}, {'s': 'EINC', 'n':  
 'VanEck Energy Income ETF', 'i': 'Equity', 'm': 42648616}, {'s': 'EIPX', 'n':  
 'FT Energy Income Partners Strategy ETF', 'i': 'Equity', 'm': 292615840}, {'s':  
 'EIRL', 'n': 'iShares MSCI Ireland ETF', 'i': 'Equity', 'm': 119463224}, {'s':  
 'EIS', 'n': 'iShares MSCI Israel ETF', 'i': 'Equity', 'm': 163881900}, {'s':  
 'EJAN', 'n': 'Innovator Emerging Markets Power Buffer ETF January', 'i':  
 'Equity', 'm': 150968210}, {'s': 'EJUL', 'n': 'Innovator Emerging Markets Power  
 Buffer ETF - July', 'i': 'Equity', 'm': 88323850}, {'s': 'EKG', 'n': 'First  
 Trust Nasdaq Lux Digital Health Solutions ETF', 'i': 'Equity', 'm': 2485083.2},  
 {'s': 'ELD', 'n': 'WisdomTree Emerging Markets Local Debt Fund', 'i': 'Fixed  
 Income', 'm': 84178950}, {'s': 'ELQD', 'n': 'iShares ESG Advanced Investment  
 Grade Corporate Bond ETF', 'i': 'Fixed Income', 'm': 11911980}, {'s': 'EMB',  
 'n': 'iShares JP Morgan USD Emerging Markets Bond ETF', 'i': 'Fixed Income',  
 'm': 13958002000}, {'s': 'EMBD', 'n': 'Global X Emerging Markets Bond ETF', 'i':  
 'Fixed Income', 'm': 136619520}, {'s': 'EMC', 'n': 'Global X Emerging Markets  
 Great Consumer ETF', 'i': 'Equity', 'm': 161703740}, {'s': 'EMCB', 'n':  
 'WisdomTree Emerging Markets Corporate Bond Fund', 'i': 'Fixed Income', 'm':  
 54441140}, {'s': 'EMCC', 'n': 'Global X MSCI Emerging Markets Covered Call ETF',  
 'i': 'Equity', 'm': 1732178}, {'s': 'EMCR', 'n': 'Xtrackers Emerging Markets  
 Carbon Reduction and Climate Improvers ETF', 'i': 'Equity', 'm': 546830300},  
 {'s': 'EMDM', 'n': 'First Trust Bloomberg Emerging Market Democracies ETF', 'i':

'Equity', 'm': 6892246}, {'s': 'EMDV', 'n': 'ProShares MSCI Emerging Markets Dividend Growers ETF', 'i': 'Equity', 'm': 12950957}, {'s': 'EMFM', 'n': 'Global X MSCI Next Emerging & Frontier ETF', 'i': 'Equity', 'm': 16715954}, {'s': 'EMFQ', 'n': 'Amplify Emerging Markets FinTech ETF', 'i': 'Equity', 'm': 2110500}, {'s': 'EMGF', 'n': 'iShares Emerging Markets Equity Factor ETF', 'i': 'Equity', 'm': 604433800}, {'s': 'EMHC', 'n': 'SPDR Bloomberg Emerging Markets USD Bond ETF', 'i': 'Fixed Income', 'm': 302706900}, {'s': 'EMHY', 'n': 'iShares J.P. Morgan EM High Yield Bond ETF', 'i': 'Fixed Income', 'm': 384013760}, {'s': 'EMIF', 'n': 'iShares Emerging Markets Infrastructure ETF', 'i': 'Equity', 'm': 22211900}, {'s': 'EMLC', 'n': 'VanEck J. P. Morgan EM Local Currency Bond ETF', 'i': 'Fixed Income', 'm': 2962294500}, {'s': 'EMLP', 'n': 'First Trust North American Energy Infrastructure Fund', 'i': 'Equity', 'm': 2403964400}, {'s': 'EMM', 'n': 'Global X Emerging Markets ex-China ETF', 'i': 'Equity', 'm': 26874258}, {'s': 'EMMF', 'n': 'WisdomTree Emerging Markets Multifactor Fund', 'i': 'Equity', 'm': 23747310}, {'s': 'EMNT', 'n': 'PIMCO Enhanced Short Maturity Active ESG Exchange-Traded Fund PIMCO Enhanced Short Maturity Active ESG', 'i': 'Fixed Income', 'm': 166262200}, {'s': 'EMQQ', 'n': 'EMQQ The Emerging Markets Internet & Ecommerce ETF', 'i': 'Equity', 'm': 367466080}, {'s': 'EMSF', 'n': 'Matthews Emerging Markets Sustainable Future Active ETF', 'i': 'Equity', 'm': 19826250}, {'s': 'EMSG', 'n': 'Xtrackers MSCI Emerging Markets ESG Leaders Equity ETF', 'i': 'Equity', 'm': 26049474}, {'s': 'EMTL', 'n': 'SPDR DoubleLine Emerging Markets Fixed Income ETF', 'i': 'Fixed Income', 'm': 84561430}, {'s': 'EMTY', 'n': 'ProShares Decline of the Retail Store ETF', 'i': 'Equity', 'm': 5185922.5}, {'s': 'EMXC', 'n': 'iShares MSCI Emerging Markets ex China ETF', 'i': 'Equity', 'm': 13142995000}, {'s': 'EMXF', 'n': 'iShares ESG Advanced MSCI EM ETF', 'i': 'Equity', 'm': 75296340}, {'s': 'ENFR', 'n': 'Alerian Energy Infrastructure ETF', 'i': 'Equity', 'm': 138875000}, {'s': 'ENOR', 'n': 'iShares MSCI Norway ETF', 'i': 'Equity', 'm': 27645770}, {'s': 'ENZL', 'n': 'iShares MSCI New Zealand ETF', 'i': 'Equity', 'm': 88536050}, {'s': 'EOCT', 'n': 'Innovator Emerging Markets Power Buffer ETF - October', 'i': 'Equity', 'm': 36343050}, {'s': 'EPHE', 'n': 'iShares MSCI Philippines ETF', 'i': 'Equity', 'm': 123295220}, {'s': 'EPI', 'n': 'WisdomTree India Earnings Fund', 'i': 'Equity', 'm': 2985828600}, {'s': 'EPOL', 'n': 'iShares MSCI Poland ETF', 'i': 'Equity', 'm': 319074980}, {'s': 'EPP', 'n': 'iShares MSCI Pacific ex-Japan ETF', 'i': 'Equity', 'm': 1905601300}, {'s': 'EPRF', 'n': 'Innovator S&P Investment Grade Preferred ETF', 'i': 'Fixed Income', 'm': 110851560}, {'s': 'EPS', 'n': 'WisdomTree U.S. LargeCap Fund', 'i': 'Equity', 'm': 854310800}, {'s': 'EPU', 'n': 'iShares MSCI Peru and Global Exposure ETF', 'i': 'Equity', 'm': 113825040}, {'s': 'EPV', 'n': 'ProShares UltraShort FTSE Europe', 'i': 'Equity', 'm': 24174456}, {'s': 'EQAL', 'n': 'Invesco Russell 1000 Equal Weight ETF', 'i': 'Equity', 'm': 593019970}, {'s': 'EQL', 'n': 'Alps Equal Sector Weight ETF', 'i': 'Equity', 'm': 333816260}, {'s': 'EQLS', 'n': 'Simplify Market Neutral Equity Long/Short ETF', 'i': 'Alternatives', 'm': 156545040}, {'s': 'EQRR', 'n': 'ProShares Equities for Rising Rates ETF', 'i': 'Equity', 'm': 21309390}, {'s': 'EQTY', 'n': 'Kovitz Core Equity ETF', 'i': 'Equity', 'm': 1041211650}, {'s': 'EQUL', 'n': 'IQ Engender Equality ETF', 'i': 'Equity', 'm': 6880225}, {'s': 'EQWL', 'n': 'Invesco S&P 100 Equal Weight ETF', 'i': 'Equity', 'm': 621670300}, {'s': 'ERET', 'n': 'iShares Environmentally Aware Real Estate

ETF', 'i': 'Equity', 'm': 8895420}, {'s': 'ERTH', 'n': 'Invesco MSCI Sustainable Future ETF', 'i': 'Equity', 'm': 186880500}, {'s': 'ERX', 'n': 'Direxion Daily Energy Bull 2x Shares', 'i': 'Equity', 'm': 423945060}, {'s': 'ERY', 'n': 'Direxion Daily Energy Bear 2X Shares', 'i': 'Equity', 'm': 24695380}, {'s': 'ESG', 'n': 'FlexShares STOXX US ESG Select Index Fund', 'i': 'Equity', 'm': 199880130}, {'s': 'ESGA', 'n': 'American Century Sustainable Equity ETF', 'i': 'Equity', 'm': 183270380}, {'s': 'ESGB', 'n': 'IQ MacKay ESG Core Plus Bond ETF', 'i': 'Fixed Income', 'm': 213491200}, {'s': 'ESGD', 'n': 'iShares ESG Aware MSCI EAFE ETF', 'i': 'Equity', 'm': 8030324000}, {'s': 'ESGE', 'n': 'iShares ESG Aware MSCI EM ETF', 'i': 'Equity', 'm': 4180770300}, {'s': 'ESGG', 'n': 'FlexShares STOXX Global ESG Select Index Fund FlexShares STOXX Global ESG Select Index Fund', 'i': 'Equity', 'm': 177128770}, {'s': 'ESGN', 'n': 'Columbia International ESG Equity Income ETF', 'i': 'Equity', 'm': 7662500}, {'s': 'ESGS', 'n': 'Columbia U.S. ESG Equity Income ETF', 'i': 'Equity', 'm': 56706000}, {'s': 'ESGU', 'n': 'iShares ESG Aware MSCI USA ETF', 'i': 'Equity', 'm': 12614894000}, {'s': 'ESGV', 'n': 'Vanguard ESG U.S. Stock ETF', 'i': 'Equity', 'm': 8358735400}, {'s': 'ESGY', 'n': 'American Century Sustainable Growth ETF', 'i': 'Equity', 'm': 15260550}, {'s': 'ESIX', 'n': 'SPDR S&P SmallCap 600 ESG ETF', 'i': 'Equity', 'm': 4312382.5}, {'s': 'ESML', 'n': 'iShares ESG Aware MSCI USA Small-Cap ETF', 'i': 'Equity', 'm': 1574777200}, {'s': 'ESMV', 'n': 'iShares ESG MSCI USA Min Vol Factor ETF', 'i': 'Equity', 'm': 11652701}, {'s': 'ESPO', 'n': 'VanEck Video Gaming and eSports ETF', 'i': 'Equity', 'm': 249686140}, {'s': 'ETEC', 'n': 'iShares Breakthrough Environmental Solutions ETF', 'i': 'Equity', 'm': 3431184}, {'s': 'ETHO', 'n': 'Amplify Etho Climate Leadership U.S. ETF', 'i': 'Equity', 'm': 182910000}, {'s': 'EUDG', 'n': 'WisdomTree Europe Quality Dividend Growth Fund', 'i': 'Equity', 'm': 70761820}, {'s': 'EUDV', 'n': 'ProShares MSCI Europe Dividend Growers ETF', 'i': 'Equity', 'm': 7325239}, {'s': 'EUFN', 'n': 'iShares MSCI Europe Financials ETF', 'i': 'Equity', 'm': 1389085400}, {'s': 'EUM', 'n': 'ProShares Short MSCI Emerging Markets', 'i': 'Equity', 'm': 14551740}, {'s': 'EUO', 'n': 'ProShares UltraShort Euro', 'i': 'Currency', 'm': 39200148}, {'s': 'EURL', 'n': 'Direxion Daily FTSE Europe Bull 3X Shares', 'i': 'Equity', 'm': 24829024}, {'s': 'EUSA', 'n': 'iShares MSCI USA Equal Weighted ETF', 'i': 'Equity', 'm': 740178500}, {'s': 'EUSB', 'n': 'iShares ESG Advanced Total USD Bond Market ETF', 'i': 'Fixed Income', 'm': 608015400}, {'s': 'EUSC', 'n': 'WisdomTree Europe Hedged SmallCap Equity Fund', 'i': 'Equity', 'm': 43707130}, {'s': 'EV', 'n': 'Mast Global Battery Recycling & Production ETF', 'i': 'Equity', 'm': 6768076}, {'s': 'EVAV', 'n': 'Direxion Daily Electric and Autonomous Vehicles Bull 2X Shares', 'i': 'Equity', 'm': 3439829.5}, {'s': 'EVHY', 'n': 'Eaton Vance High Yield ETF', 'i': 'Fixed Income', 'm': 20876000}, {'s': 'EVIM', 'n': 'Eaton Vance Intermediate Municipal Income ETF', 'i': 'Fixed Income', 'm': 20800000}, {'s': 'EVLN', 'n': 'Eaton Vance Floating-Rate ETF', 'i': 'Fixed Income', 'm': 778932000}, {'s': 'EVMT', 'n': 'Invesco Electric Vehicle Metals Commodity Strategy No K-1 ETF', 'i': 'Commodity', 'm': 8614517}, {'s': 'EVNT', 'n': 'AltShares Event-Driven ETF', 'i': 'Alternatives', 'm': 4540408.5}, {'s': 'EVSU', 'n': 'Eaton Vance Ultra-Short Income ETF', 'i': 'Fixed Income', 'm': 37822500}, {'s': 'EVSM', 'n': 'Eaton Vance Short Duration Municipal Income ETF', 'i': 'Fixed Income', 'm': 125690270}, {'s': 'EVTR', 'n':



'Eaton Vance Total Return Bond ETF', 'i': 'Fixed Income', 'm': 355879740}, {'s':  
'EVUS', 'n': 'iShares ESG Aware MSCI USA Value ETF', 'i': 'Equity', 'm':  
4325325.5}, {'s': 'EVX', 'n': 'VanEck Environmental Services ETF', 'i':  
'Equity', 'm': 73834740}, {'s': 'EWA', 'n': 'iShares MSCI Australia ETF', 'i':  
'Equity', 'm': 1818912100}, {'s': 'EWC', 'n': 'iShares MSCI Canada ETF', 'i':  
'Equity', 'm': 2809783000}, {'s': 'EWD', 'n': 'iShares MSCI Sweden ETF', 'i':  
'Equity', 'm': 279134180}, {'s': 'EWG', 'n': 'iShares MSCI Germany ETF', 'i':  
'Equity', 'm': 999870460}, {'s': 'EWH', 'n': 'iShares MSCI Hong Kong ETF', 'i':  
'Equity', 'm': 495013920}, {'s': 'EWI', 'n': 'iShares MSCI Italy ETF', 'i':  
'Equity', 'm': 412794000}, {'s': 'EWJ', 'n': 'iShares MSCI Japan ETF', 'i':  
'Equity', 'm': 17139469000}, {'s': 'EWJV', 'n': 'iShares MSCI Japan Value ETF',  
'i': 'Equity', 'm': 267337260}, {'s': 'EWK', 'n': 'iShares MSCI Belgium ETF',  
'i': 'Equity', 'm': 20763344}, {'s': 'EWL', 'n': 'iShares MSCI Switzerland ETF',  
'i': 'Equity', 'm': 1024303400}, {'s': 'EWM', 'n': 'iShares MSCI Malaysia ETF',  
'i': 'Equity', 'm': 254361020}, {'s': 'EWN', 'n': 'iShares MSCI Netherlands  
ETF', 'i': 'Equity', 'm': 289472030}, {'s': 'EWO', 'n': 'iShares MSCI Austria  
ETF', 'i': 'Equity', 'm': 59153492}, {'s': 'EWP', 'n': 'iShares MSCI Spain ETF',  
'i': 'Equity', 'm': 1024976700}, {'s': 'EWQ', 'n': 'iShares MSCI France ETF',  
'i': 'Equity', 'm': 662053250}, {'s': 'EWS', 'n': 'iShares MSCI Singapore ETF',  
'i': 'Equity', 'm': 428798370}, {'s': 'EWT', 'n': 'iShares MSCI Taiwan ETF',  
'i': 'Equity', 'm': 4257171500}, {'s': 'EWU', 'n': 'iShares MSCI United Kingdom  
ETF', 'i': 'Equity', 'm': 2647306800}, {'s': 'EWUS', 'n': 'iShares MSCI United  
Kingdom Small Cap ETF', 'i': 'Equity', 'm': 40117176}, {'s': 'EWV', 'n':  
'ProShares UltraShort MSCI Japan', 'i': 'Equity', 'm': 4528068.5}, {'s': 'EWW',  
'n': 'iShares MSCI Mexico ETF', 'i': 'Equity', 'm': 2120274600}, {'s': 'EWX',  
'n': 'SPDR S&P Emerging Markets Small Cap ETF', 'i': 'Equity', 'm': 784249200},  
{'s': 'EWY', 'n': 'iShares MSCI South Korea ETF', 'i': 'Equity', 'm':  
5179373000}, {'s': 'EWZ', 'n': 'iShares MSCI Brazil ETF', 'i': 'Equity', 'm':  
5000723500}, {'s': 'EWZS', 'n': 'iShares MSCI Brazil Small-Cap ETF', 'i':  
'Equity', 'm': 207507420}, {'s': 'EXI', 'n': 'iShares Global Industrials ETF',  
'i': 'Equity', 'm': 570938750}, {'s': 'EYEG', 'n': 'AB Corporate Bond ETF', 'i':  
'Fixed Income', 'm': 24358594}, {'s': 'EYLD', 'n': 'Cambria Emerging Shareholder  
Yield ETF', 'i': 'Equity', 'm': 341623140}, {'s': 'EZA', 'n': 'iShares MSCI  
South Africa ETF', 'i': 'Equity', 'm': 268473470}, {'s': 'EZBC', 'n': 'Franklin  
Bitcoin ETF', 'i': 'Currency', 'm': 344396640}, {'s': 'EZJ', 'n': 'ProShares  
Ultra MSCI Japan', 'i': 'Equity', 'm': 10528050}, {'s': 'EZM', 'n': 'WisdomTree  
U.S. MidCap Fund', 'i': 'Equity', 'm': 790819650}, {'s': 'EZU', 'n': 'iShares  
MSCI Eurozone ETF', 'i': 'Equity', 'm': 7624781300}, {'s': 'FAAR', 'n': 'First  
Trust Alternative Absolute Return Strategy ETF', 'i': 'Alternatives', 'm':  
132218510}, {'s': 'FAB', 'n': 'First Trust Multi Cap Value AlphaDEX Fund', 'i':  
'Equity', 'm': 155559460}, {'s': 'FAD', 'n': 'First Trust Multi Cap Growth  
AlphaDEX Fund', 'i': 'Equity', 'm': 188108240}, {'s': 'FAIL', 'n': 'Cambria  
Global Tail Risk ETF', 'i': 'Asset Allocation', 'm': 2502000}, {'s': 'FALN',  
'n': 'iShares Fallen Angels USD Bond ETF', 'i': 'Fixed Income', 'm':  
1663269200}, {'s': 'FAN', 'n': 'First Trust Global Wind Energy ETF', 'i':  
'Equity', 'm': 184020030}, {'s': 'FAPR', 'n': 'FT Vest U.S. Equity Buffer ETF -  
April', 'i': 'Equity', 'm': 740808000}, {'s': 'FAS', 'n': 'Direxion Daily  
Financial Bull 3x Shares', 'i': 'Equity', 'm': 2194367700}, {'s': 'FAUG', 'n':

'FT Vest U.S. Equity Buffer ETF - August', 'i': 'Equity', 'm': 593156350}, {'s':  
 'FAZ', 'n': 'Direxion Daily Financial Bear 3X Shares', 'i': 'Equity', 'm':  
 139534400}, {'s': 'FBCG', 'n': 'Fidelity Blue Chip Growth ETF', 'i': 'Equity',  
 'm': 1458074800}, {'s': 'FBCV', 'n': 'Fidelity Blue Chip Value ETF', 'i':  
 'Equity', 'm': 124537210}, {'s': 'FBL', 'n': 'GraniteShares 2x Long META Daily  
 ETF', 'i': 'Equity', 'm': 87480450}, {'s': 'FBND', 'n': 'Fidelity Total Bond  
 ETF', 'i': 'Fixed Income', 'm': 8788543000}, {'s': 'FBOT', 'n': 'Fidelity  
 Disruptive Automation ETF', 'i': 'Equity', 'm': 107033110}, {'s': 'FBT', 'n':  
 'First Trust NYSE Arca Biotechnology Index Fund', 'i': 'Equity', 'm':  
 1145061900}, {'s': 'FBTC', 'n': 'Fidelity Wise Origin Bitcoin Fund', 'i':  
 'Currency', 'm': 10148764000}, {'s': 'FBY', 'n': 'YieldMax META Option Income  
 Strategy ETF', 'i': 'Equity', 'm': 64629190}, {'s': 'FBZ', 'n': 'First Trust  
 Brazil AlphaDEX Fund', 'i': 'Equity', 'm': 6505973.5}, {'s': 'FCA', 'n': 'First  
 Trust China AlphaDEX Fund', 'i': 'Equity', 'm': 6929689.5}, {'s': 'FCAL', 'n':  
 'First Trust California Municipal High Income ETF', 'i': 'Fixed Income', 'm':  
 216669300}, {'s': 'FCEF', 'n': 'First Trust Income Opportunities ETF', 'i':  
 'Asset Allocation', 'm': 31395450}, {'s': 'FCFY', 'n': 'First Trust S&P 500  
 Diversified Free Cash Flow ETF', 'i': 'Equity', 'm': 1136945.5}, {'s': 'FCG',  
 'n': 'First Trust Natural Gas ETF', 'i': 'Equity', 'm': 450913920}, {'s':  
 'FCLD', 'n': 'Fidelity Cloud Computing ETF', 'i': 'Equity', 'm': 82206090},  
 {'s': 'FCOM', 'n': 'Fidelity MSCI Communication Services Index ETF', 'i':  
 'Equity', 'm': 1077145500}, {'s': 'FCOR', 'n': 'Fidelity Corporate Bond ETF',  
 'i': 'Fixed Income', 'm': 211852860}, {'s': 'FCPI', 'n': 'Fidelity Stocks for  
 Inflation ETF', 'i': 'Equity', 'm': 150931740}, {'s': 'FCSH', 'n': 'Federated  
 Hermes Short Duration Corporate ETF', 'i': 'Fixed Income', 'm': 26668094}, {'s':  
 'FCTR', 'n': 'First Trust Lunt U.S. Factor Rotation ETF', 'i': 'Equity', 'm':  
 72638460}, {'s': 'FCUS', 'n': 'Pinnacle Focused Opportunities ETF', 'i':  
 'Equity', 'm': 27592400}, {'s': 'FCVT', 'n': 'First Trust SSI Strategic  
 Convertible Securities ETF', 'i': 'Fixed Income', 'm': 79683864}, {'s': 'FDAT',  
 'n': 'Tactical Advantage ETF', 'i': 'Asset Allocation', 'm': 25918200}, {'s':  
 'FDCE', 'n': 'Foundations Dynamic Core ETF', 'i': 'Equity', 'm': 1154352}, {'s':  
 'FDCF', 'n': 'Fidelity Disruptive Communications ETF', 'i': 'Equity', 'm':  
 44938204}, {'s': 'FDD', 'n': 'First Trust Stoxx European Select Dividend Index  
 Fund', 'i': 'Equity', 'm': 161819310}, {'s': 'FDEC', 'n': 'FT Vest US Equity  
 Buffer ETF - December', 'i': 'Equity', 'm': 836527550}, {'s': 'FDEM', 'n':  
 'Fidelity Emerging Markets Multifactor ETF', 'i': 'Equity', 'm': 59581910},  
 {'s': 'FDEV', 'n': 'Fidelity International Multifactor ETF', 'i': 'Equity', 'm':  
 64198590}, {'s': 'FDFF', 'n': 'Fidelity Disruptive Finance ETF', 'i': 'Equity',  
 'm': 44272376}, {'s': 'FDG', 'n': 'American Century Focused Dynamic Growth ETF',  
 'i': 'Equity', 'm': 215070700}, {'s': 'FDGR', 'n': 'Foundations Dynamic Growth  
 ETF', 'i': 'Equity', 'm': 1193734.9}, {'s': 'FDHT', 'n': 'Fidelity Digital  
 Health ETF', 'i': 'Equity', 'm': 9404935}, {'s': 'FDHY', 'n': 'Fidelity High  
 Yield Factor ETF', 'i': 'Fixed Income', 'm': 300704160}, {'s': 'FDIF', 'n':  
 'Fidelity Disruptors ETF', 'i': 'Equity', 'm': 100292720}, {'s': 'FDIG', 'n':  
 'Fidelity Crypto Industry and Digital Payments ETF', 'i': 'Equity', 'm':  
 90223896}, {'s': 'FDIS', 'n': 'Fidelity MSCI Consumer Discretionary Index ETF',  
 'i': 'Equity', 'm': 1415881200}, {'s': 'FDIV', 'n': 'MarketDesk Focused U.S.  
 Dividend ETF', 'i': 'Equity', 'm': 90246900}, {'s': 'FDL', 'n': 'First Trust

Morningstar Dividend Leaders Index Fund', 'i': 'Equity', 'm': 3944539600}, {'s':  
'FDLO', 'n': 'Fidelity Low Volatility Factor ETF', 'i': 'Equity', 'm':  
1001890200}, {'s': 'FDLS', 'n': 'Inspire Fidelis Multi Factor ETF', 'i':  
'Equity', 'm': 86609250}, {'s': 'FDM', 'n': 'First Trust Dow Jones Select  
MicroCap Index Fund', 'i': 'Equity', 'm': 173161460}, {'s': 'FDMO', 'n':  
'Fidelity Momentum Factor ETF', 'i': 'Equity', 'm': 194695460}, {'s': 'FDN',  
'n': 'First Trust Dow Jones Internet Index Fund', 'i': 'Equity', 'm':  
6151217000}, {'s': 'FDND', 'n': 'FT Vest Dow Jones Internet & Target Income  
ETF', 'i': 'Equity', 'm': 1031591.25}, {'s': 'FDNI', 'n': 'First Trust Dow Jones  
International Internet ETF', 'i': 'Equity', 'm': 26520196}, {'s': 'FDRR', 'n':  
'Fidelity Dividend ETF for Rising Rates', 'i': 'Equity', 'm': 523936830}, {'s':  
'FDRV', 'n': 'Fidelity Electric Vehicles and Future Transportation ETF', 'i':  
'Equity', 'm': 35255396}, {'s': 'FDT', 'n': 'First Trust Developed Markets ex-US  
AlphaDEX Fund', 'i': 'Equity', 'm': 414408930}, {'s': 'FDTB', 'n': 'Foundations  
Dynamic Income ETF', 'i': 'Fixed Income', 'm': 8109337.5}, {'s': 'FDTX', 'n':  
'First Trust Developed Markets ex-US Small Cap AlphaDEX Fund', 'i': 'Equity',  
'm': 8439884}, {'s': 'FDTX', 'n': 'Fidelity Disruptive Technology ETF', 'i':  
'Equity', 'm': 147763490}, {'s': 'FDV', 'n': 'Federated Hermes U.S. Strategic  
Dividend ETF', 'i': 'Equity', 'm': 89655300}, {'s': 'FDVL', 'n': 'Foundations  
Dynamic Value ETF', 'i': 'Equity', 'm': 26102326}, {'s': 'FDVV', 'n': 'Fidelity  
High Dividend ETF', 'i': 'Equity', 'm': 2517644500}, {'s': 'FDWM', 'n':  
'Fidelity Women's Leadership ETF', 'i': 'Equity', 'm': 3858625}, {'s': 'FEBP',  
'n': 'PGIM US Large-Cap Buffer 12 ETF - February', 'i': 'Equity', 'm': 3647618},  
{'s': 'FEBT', 'n': 'AllianzIM U.S. Large Cap Buffer10 Feb ETF', 'i': 'Equity',  
'm': 89907480}, {'s': 'FEBW', 'n': 'AllianzIM U.S. Large Cap Buffer20 Feb ETF',  
'i': 'Equity', 'm': 214808080}, {'s': 'FEBZ', 'n': 'TrueShares Structured  
Outcome (February) ETF', 'i': 'Equity', 'm': 6162403}, {'s': 'FEDM', 'n':  
'FlexShares ESG & Climate Developed Markets ex-US Core Index Fund ESG & Climate  
Developed Markets ex-US Core Index Fund', 'i': 'Equity', 'm': 48872300}, {'s':  
'FEEM', 'n': 'FlexShares ESG & Climate Emerging Markets Core Index Fund  
FlexShares ESG & Climate Emerging Markets Core Index Fund', 'i': 'Equity', 'm':  
4778170}, {'s': 'FEIG', 'n': 'FlexShares ESG & Climate Investment Grade  
Corporate Core Index Fund ESG & Climate Investment Grade Corporate Core Index  
Fund', 'i': 'Fixed Income', 'm': 40103300}, {'s': 'FELC', 'n': 'Fidelity  
Enhanced Large Cap Core ETF', 'i': 'Equity', 'm': 2474001200}, {'s': 'FELG',  
'n': 'Fidelity Enhanced Large Cap Growth ETF', 'i': 'Equity', 'm': 2367636500},  
{'s': 'FELV', 'n': 'Fidelity Enhanced Large Cap Value ETF', 'i': 'Equity', 'm':  
1821386200}, {'s': 'FEM', 'n': 'First Trust Emerging Markets AlphaDEX Fund',  
'i': 'Equity', 'm': 435586100}, {'s': 'FEMB', 'n': 'First Trust Emerging Markets  
Local Currency Bond ETF', 'i': 'Fixed Income', 'm': 161808450}, {'s': 'FEMS',  
'n': 'First Trust Emerging Markets Small Cap AlphaDEX Fund', 'i': 'Equity', 'm':  
329744320}, {'s': 'FENI', 'n': 'Fidelity Enhanced International ETF', 'i':  
'Equity', 'm': 1457001500}, {'s': 'FENY', 'n': 'Fidelity MSCI Energy Index ETF',  
'i': 'Equity', 'm': 1940939300}, {'s': 'FEP', 'n': 'First Trust Europe AlphaDEX  
Fund', 'i': 'Equity', 'm': 210174430}, {'s': 'FEPI', 'n': 'REX FANG & Innovation  
Equity Premium Income ETF', 'i': 'Equity', 'm': 176810670}, {'s': 'FESM', 'n':  
'Fidelity Enhanced Small Cap ETF', 'i': 'Equity', 'm': 572804540}, {'s': 'FEUS',  
'n': 'FlexShares ESG & Climate US Large Cap Core Index Fund ESG & Climate US

Large Cap Core Index Fund', 'i': 'Equity', 'm': 45228536}, {'s': 'FEUZ', 'n':  
 'First Trust Eurozone AlphaDEX ETF', 'i': 'Equity', 'm': 16812484}, {'s': 'FEX',  
 'n': 'First Trust Large Cap Core AlphaDEX Fund', 'i': 'Equity', 'm':  
 1185959400}, {'s': 'FEZ', 'n': 'SPDR EURO STOXX 50 ETF', 'i': 'Equity', 'm':  
 3457772000}, {'s': 'FFEB', 'n': 'FT Vest U.S. Equity Buffer Fund - February',  
 'i': 'Equity', 'm': 776459500}, {'s': 'FFIU', 'n': 'UVA Unconstrained Medium-  
 Term Fixed Income ETF', 'i': 'Fixed Income', 'm': 41673310}, {'s': 'FFLC', 'n':  
 'Fidelity Fundamental Large Cap Core ETF', 'i': 'Equity', 'm': 256779410}, {'s':  
 'FFLG', 'n': 'Fidelity Fundamental Large Cap Growth ETF', 'i': 'Equity', 'm':  
 294046180}, {'s': 'FFLS', 'n': 'Future Fund Long/Short ETF', 'i':  
 'Alternatives', 'm': 2274000}, {'s': 'FFLV', 'n': 'Fidelity Fundamental Large  
 Cap Value ETF', 'i': 'Equity', 'm': 1032321.1}, {'s': 'FFND', 'n': 'Future Fund  
 Active ETF', 'i': 'Equity', 'm': 11345000}, {'s': 'FFOG', 'n': 'Franklin Focused  
 Growth ETF FOCUSED GROWTH ETF', 'i': 'Equity', 'm': 73670320}, {'s': 'FFSM',  
 'n': 'Fidelity Fundamental Small-Mid Cap ETF', 'i': 'Equity', 'm': 58364310},  
 {'s': 'FFTY', 'n': 'Innovator IBD 50 ETF', 'i': 'Equity', 'm': 90698904}, {'s':  
 'FGD', 'n': 'First Trust Dow Jones Global Select Dividend Index Fund', 'i':  
 'Equity', 'm': 539213440}, {'s': 'FGDL', 'n': 'Franklin Responsibly Sourced Gold  
 ETF', 'i': 'Commodity', 'm': 68915000}, {'s': 'FGM', 'n': 'First Trust Germany  
 AlphaDEX Fund', 'i': 'Equity', 'm': 9877329}, {'s': 'FHLC', 'n': 'Fidelity MSCI  
 Health Care Index ETF', 'i': 'Equity', 'm': 2951704600}, {'s': 'FHYS', 'n':  
 'Federated Hermes Short Duration High Yield ETF', 'i': 'Fixed Income', 'm':  
 26083200}, {'s': 'FIAX', 'n': 'Nicholas Fixed Income Alternative ETF', 'i':  
 'Alternatives', 'm': 60655770}, {'s': 'FIBR', 'n': 'iShares U.S. Fixed Income  
 Balanced Risk Systematic ETF', 'i': 'Fixed Income', 'm': 63568200}, {'s':  
 'FICS', 'n': 'First Trust International Developed Capital Strength ETF', 'i':  
 'Equity', 'm': 101469064}, {'s': 'FID', 'n': 'First Trust S&P International  
 Dividend Aristocrats ETF', 'i': 'Equity', 'm': 76522080}, {'s': 'FIDI', 'n':  
 'Fidelity International High Dividend ETF', 'i': 'Equity', 'm': 97047576}, {'s':  
 'FIDU', 'n': 'Fidelity MSCI Industrial Index ETF', 'i': 'Equity', 'm':  
 1038657340}, {'s': 'FIG', 'n': 'Simplify Macro Strategy ETF', 'i': 'Asset  
 Allocation', 'm': 26075122}, {'s': 'FIGB', 'n': 'Fidelity Investment Grade Bond  
 ETF', 'i': 'Fixed Income', 'm': 60538330}, {'s': 'FIIG', 'n': 'First Trust  
 Intermediate Duration Investment Grade Corporate ETF', 'i': 'Fixed Income', 'm':  
 143908100}, {'s': 'FILL', 'n': 'iShares MSCI Global Energy Producers ETF', 'i':  
 'Equity', 'm': 108354480}, {'s': 'FINE', 'n': 'Themes European Luxury ETF', 'i':  
 'Equity', 'm': 488338}, {'s': 'FINX', 'n': 'Global X FinTech ETF', 'i':  
 'Equity', 'm': 343732800}, {'s': 'FISR', 'n': 'SPDR SSGA Fixed Income Sector  
 Rotation ETF', 'i': 'Fixed Income', 'm': 218223040}, {'s': 'FITE', 'n': 'SPDR  
 S&P Kensho Future Security ETF', 'i': 'Equity', 'm': 54881148}, {'s': 'FIVA',  
 'n': 'Fidelity International Value Factor ETF', 'i': 'Equity', 'm': 115754424},  
 {'s': 'FIVG', 'n': 'Defiance Next Gen Connectivity ETF', 'i': 'Equity', 'm':  
 552771460}, {'s': 'FIW', 'n': 'First Trust Water ETF', 'i': 'Equity', 'm':  
 1589450900}, {'s': 'FIXD', 'n': 'First Trust TCW Opportunistic Fixed Income  
 ETF', 'i': 'Fixed Income', 'm': 5097796600}, {'s': 'FIXT', 'n': 'Procure  
 Disaster Recovery Strategy ETF', 'i': 'Equity', 'm': 2566507.5}, {'s': 'FJAN',  
 'n': 'FT Vest US Equity Buffer ETF - January', 'i': 'Equity', 'm': 738687900},  
 {'s': 'FJP', 'n': 'First Trust Japan AlphaDEX Fund', 'i': 'Equity', 'm':

210425710}, {'s': 'FJUL', 'n': 'FT Vest U.S. Equity Buffer ETF - July', 'i':  
 'Equity', 'm': 664725100}, {'s': 'FJUN', 'n': 'FT Vest U.S. Equity Buffer ETF -  
 June', 'i': 'Equity', 'm': 607277400}, {'s': 'FKU', 'n': 'First Trust United  
 Kingdom AlphaDEX Fund', 'i': 'Equity', 'm': 60812470}, {'s': 'FLAO', 'n':  
 'AllianzIM U.S. Equity 6 Month Floor5 Apr/Oct ETF', 'i': 'Equity', 'm':  
 6219825}, {'s': 'FLAU', 'n': 'Franklin FTSE Australia ETF Franklin FTSE  
 Australia Fund', 'i': 'Equity', 'm': 25704000}, {'s': 'FLAX', 'n': 'Franklin  
 FTSE Asia ex Japan ETF', 'i': 'Equity', 'm': 35408000}, {'s': 'FLBL', 'n':  
 'Franklin Senior Loan ETF Franklin Liberty Senior Loan Fund', 'i': 'Fixed  
 Income', 'm': 347204000}, {'s': 'FLBR', 'n': 'Franklin FTSE Brazil ETF Franklin  
 FTSE Brazil Fund', 'i': 'Equity', 'm': 161448000}, {'s': 'FLCA', 'n': 'Franklin  
 FTSE Canada ETF Franklin FTSE Canada Fund', 'i': 'Equity', 'm': 402616000},  
 {'s': 'FLCB', 'n': 'Franklin U.S. Core Bond ETF', 'i': 'Fixed Income', 'm':  
 1760782500}, {'s': 'FLCH', 'n': 'Franklin FTSE China ETF', 'i': 'Equity', 'm':  
 115920000}, {'s': 'FLCO', 'n': 'Franklin Investment Grade Corporate ETF Franklin  
 Liberty Investment Grade Corporate', 'i': 'Fixed Income', 'm': 355833500}, {'s':  
 'FLDB', 'n': 'Fidelity Low Duration Bond ETF', 'i': 'Fixed Income', 'm':  
 372073470}, {'s': 'FLDR', 'n': 'Fidelity Low Duration Bond Factor ETF', 'i':  
 'Fixed Income', 'm': 443649120}, {'s': 'FLDZ', 'n': 'RiverNorth Patriot ETF',  
 'i': 'Equity', 'm': 3555020}, {'s': 'FLEE', 'n': 'Franklin FTSE Europe ETF',  
 'i': 'Equity', 'm': 69600000}, {'s': 'FLEU', 'n': 'Franklin FTSE Eurozone ETF  
 Franklin FTSE Europe Hedged Fund', 'i': 'Equity', 'm': 20248000}, {'s': 'FLGB',  
 'n': 'Franklin FTSE United Kingdom ETF', 'i': 'Equity', 'm': 695849000}, {'s':  
 'FLGR', 'n': 'Franklin FTSE Germany ETF', 'i': 'Equity', 'm': 21555000}, {'s':  
 'FLGV', 'n': 'Franklin U.S. Treasury Bond ETF', 'i': 'Fixed Income', 'm':  
 723361500}, {'s': 'FLHK', 'n': 'Franklin FTSE Hong Kong ETF', 'i': 'Equity',  
 'm': 9978000}, {'s': 'FLHY', 'n': 'Franklin High Yield Corporate ETF Franklin  
 Liberty High Yield Corporate Fund', 'i': 'Fixed Income', 'm': 270270000}, {'s':  
 'FLIA', 'n': 'Franklin International Aggregate Bond ETF Franklin Liberty  
 International Aggregate Bond Fund', 'i': 'Fixed Income', 'm': 508762000}, {'s':  
 'FLIN', 'n': 'Franklin FTSE India ETF', 'i': 'Equity', 'm': 999096000}, {'s':  
 'FLJH', 'n': 'Franklin FTSE Japan Hedged ETF Franklin FTSE Japan Hedged Fund',  
 'i': 'Equity', 'm': 53431000}, {'s': 'FLJJ', 'n': 'AllianzIM U.S. Equity 6 Month  
 Floor5 Jan/Jul ETF', 'i': 'Equity', 'm': 11082002}, {'s': 'FLJP', 'n': 'Franklin  
 FTSE Japan ETF', 'i': 'Equity', 'm': 1946160000}, {'s': 'FLKR', 'n': 'Franklin  
 FTSE South Korea ETF', 'i': 'Equity', 'm': 285735000}, {'s': 'FLLA', 'n':  
 'Franklin FTSE Latin America ETF', 'i': 'Equity', 'm': 67860000}, {'s': 'FLLV',  
 'n': 'Franklin U.S. Low Volatility ETF Franklin Liberty US Low Volatility', 'i':  
 'Equity', 'm': 116688000}, {'s': 'FLMB', 'n': 'Franklin Municipal Green Bond ETF  
 Liberty Mun Bd Fund', 'i': 'Fixed Income', 'm': 110298000}, {'s': 'FLMI', 'n':  
 'Franklin Dynamic Municipal Bond ETF', 'i': 'Fixed Income', 'm': 196904000},  
 {'s': 'FLMX', 'n': 'Franklin FTSE Mexico ETF Franklin FTSE Mexico Fund', 'i':  
 'Equity', 'm': 48734500}, {'s': 'FLN', 'n': 'First Trust Latin America AlphaDEX  
 Fund', 'i': 'Equity', 'm': 65209640}, {'s': 'FLOT', 'n': 'iShares Floating Rate  
 Bond ETF', 'i': 'Fixed Income', 'm': 7292350500}, {'s': 'FLOW', 'n': 'Global X  
 U.S. Cash Flow Kings 100 ETF', 'i': 'Equity', 'm': 3095639.5}, {'s': 'FLQL',  
 'n': 'Franklin U.S. Large Cap Multifactor Index ETF', 'i': 'Equity', 'm':  
 1267660000}, {'s': 'FLQM', 'n': 'Franklin U.S. Mid Cap Multifactor Index ETF

LibertyQ US Mid Cap Equity Fund', 'i': 'Equity', 'm': 618840000}, {'s': 'FLQS',  
 'n': 'Franklin U.S. Small Cap Multifactor Index ETF LibertyQ US Small Cap Equity  
 Fund', 'i': 'Equity', 'm': 36822000}, {'s': 'FLRG', 'n': 'Fidelity U.S.  
 Multifactor ETF', 'i': 'Equity', 'm': 103277510}, {'s': 'FLRN', 'n': 'SPDR  
 Bloomberg Investment Grade Floating Rate ETF', 'i': 'Fixed Income', 'm':  
 2338014500}, {'s': 'FLRT', 'n': 'Pacer Pacific Asset Floating Rate High Income  
 ETF', 'i': 'Fixed Income', 'm': 229967410}, {'s': 'FLSA', 'n': 'Franklin FTSE  
 Saudi Arabia Fund', 'i': 'Equity', 'm': 19365000}, {'s': 'FLSP', 'n': 'Franklin  
 Systematic Style Premia ETF Franklin Liberty Systematic Style Premia Fund', 'i':  
 'Alternatives', 'm': 182875000}, {'s': 'FLSW', 'n': 'Franklin FTSE Switzerland  
 ETF', 'i': 'Equity', 'm': 44520000}, {'s': 'FLTB', 'n': 'Fidelity Limited Term  
 Bond ETF', 'i': 'Fixed Income', 'm': 143633060}, {'s': 'FLTR', 'n': 'VanEck IG  
 Floating Rate ETF', 'i': 'Fixed Income', 'm': 1440576900}, {'s': 'FLTW', 'n':  
 'Franklin FTSE Taiwan ETF Franklin FTSE Taiwan Fund', 'i': 'Equity', 'm':  
 225828000}, {'s': 'FLUD', 'n': 'Franklin Ultra Short Bond ETF Franklin Liberty  
 Ultra Short Bond Fund', 'i': 'Fixed Income', 'm': 3723000}, {'s': 'FLV', 'n':  
 'American Century Focused Large Cap Value ETF', 'i': 'Equity', 'm': 206945870},  
 {'s': 'FM', 'n': 'iShares Frontier and Select EM ETF', 'i': 'Equity', 'm':  
 440452320}, {'s': 'FMAG', 'n': 'Fidelity Magellan ETF', 'i': 'Equity', 'm':  
 89490140}, {'s': 'FMAR', 'n': 'FT Vest US Equity Buffer ETF - March', 'i':  
 'Equity', 'm': 657883260}, {'s': 'FMAT', 'n': 'Fidelity MSCI Materials Index  
 ETF', 'i': 'Equity', 'm': 511428640}, {'s': 'FMAY', 'n': 'FT Vest U.S. Equity  
 Buffer Fund - May', 'i': 'Equity', 'm': 551973060}, {'s': 'FMB', 'n': 'First  
 Trust Managed Municipal ETF', 'i': 'Fixed Income', 'm': 1952457500}, {'s':  
 'FMCX', 'n': 'FMC Excelsior Focus Equity ETF', 'i': 'Equity', 'm': 91228200},  
 {'s': 'FMDE', 'n': 'Fidelity Enhanced Mid Cap ETF', 'i': 'Equity', 'm':  
 1703375600}, {'s': 'FMED', 'n': 'Fidelity Disruptive Medicine ETF', 'i':  
 'Equity', 'm': 52799950}, {'s': 'FMET', 'n': 'Fidelity Metaverse ETF', 'i':  
 'Equity', 'm': 30120204}, {'s': 'FMF', 'n': 'First Trust Managed Futures  
 Strategy Fund', 'i': 'Alternatives', 'm': 145703620}, {'s': 'FMHI', 'n': 'First  
 Trust Municipal High Income ETF', 'i': 'Fixed Income', 'm': 595562600}, {'s':  
 'FMNY', 'n': 'First Trust New York Municipal High Income ETF', 'i': 'Fixed  
 Income', 'm': 18734854}, {'s': 'FMQQ', 'n': 'FMQQ The Next Frontier Internet &  
 Ecommerce ETF', 'i': 'Equity', 'm': 25488976}, {'s': 'FNCL', 'n': 'Fidelity MSCI  
 Financials Index ETF', 'i': 'Equity', 'm': 1581203700}, {'s': 'FNDA', 'n':  
 'Schwab Fundamental US Small Co. Index ETF', 'i': 'Equity', 'm': 8071616000},  
 {'s': 'FNDB', 'n': 'Schwab Fundamental US Broad Market Index ETF', 'i':  
 'Equity', 'm': 730545000}, {'s': 'FNDC', 'n': 'Schwab Fundamental International  
 Small Co. Index ETF', 'i': 'Equity', 'm': 3276689000}, {'s': 'FNDE', 'n':  
 'Schwab Fundamental Emerging Markets Large Co. Index ETF', 'i': 'Equity', 'm':  
 5682511000}, {'s': 'FNDF', 'n': 'Schwab Fundamental International Large Co.  
 Index ETF', 'i': 'Equity', 'm': 12741651000}, {'s': 'FNDX', 'n': 'Schwab  
 Fundamental US Large Co. Index ETF', 'i': 'Equity', 'm': 14937263000}, {'s':  
 'FNGG', 'n': 'Direxion Daily NYSE FANG+ Bull 2X Shares', 'i': 'Equity', 'm':  
 40472852}, {'s': 'FNGU', 'n': 'MicroSectors FANG+ Index 3X Leveraged ETN', 'i':  
 'Equity', 'm': 4258242600}, {'s': 'FNK', 'n': 'First Trust Mid Cap Value  
 AlphaDEX Fund', 'i': 'Equity', 'm': 223496900}, {'s': 'FNOV', 'n': 'FT Vest U.S.  
 Equity Buffer ETF - November', 'i': 'Equity', 'm': 611325300}, {'s': 'FNX', 'n':

'First Trust Mid Cap Core AlphaDEX Fund', 'i': 'Equity', 'm': 1180008200}, {'s':  
 'FNY', 'n': 'First Trust Mid Cap Growth AlphaDEX Fund', 'i': 'Equity', 'm':  
 330619650}, {'s': 'FOCT', 'n': 'FT Vest U.S. Equity Buffer ETF - October', 'i':  
 'Equity', 'm': 529079970}, {'s': 'FORH', 'n': 'Formidable ETF', 'i': 'Asset  
 Allocation', 'm': 27871000}, {'s': 'FOVL', 'n': 'iShares Focused Value Factor  
 ETF', 'i': 'Equity', 'm': 36226376}, {'s': 'FPA', 'n': 'First Trust Asia Pacific  
 ex-Japan AlphaDEX Fund', 'i': 'Equity', 'm': 13513054}, {'s': 'FPAG', 'n': 'FPA  
 Global Equity ETF', 'i': 'Equity', 'm': 95374500}, {'s': 'FPE', 'n': 'First  
 Trust Preferred Securities & Income ETF', 'i': 'Fixed Income', 'm': 5280118000},  
 {'s': 'FPEI', 'n': 'First Trust Institutional Preferred Securities & Income  
 ETF', 'i': 'Fixed Income', 'm': 1270216700}, {'s': 'FPFD', 'n': 'Fidelity  
 Preferred Securities & Income ETF', 'i': 'Fixed Income', 'm': 33812004}, {'s':  
 'FPRO', 'n': 'Fidelity Real Estate Investment ETF', 'i': 'Equity', 'm':  
 12118641}, {'s': 'FPX', 'n': 'First Trust US Equity Opportunities ETF', 'i':  
 'Equity', 'm': 762022600}, {'s': 'FPXE', 'n': 'First Trust IPOX Europe Equity  
 Opportunities ETF', 'i': 'Equity', 'm': 4999650}, {'s': 'FPXI', 'n': 'First  
 Trust International Equity Opportunities ETF', 'i': 'Equity', 'm': 158008290},  
 {'s': 'FQAL', 'n': 'Fidelity Quality Factor ETF', 'i': 'Equity', 'm':  
 876272830}, {'s': 'FRDM', 'n': 'Freedom 100 Emerging Markets ETF', 'i':  
 'Equity', 'm': 806881200}, {'s': 'FREL', 'n': 'Fidelity MSCI Real Estate Index  
 ETF', 'i': 'Equity', 'm': 924127600}, {'s': 'FRI', 'n': 'First Trust S&P REIT  
 Index Fund', 'i': 'Equity', 'm': 113768250}, {'s': 'FRNW', 'n': 'Fidelity Clean  
 Energy ETF', 'i': 'Equity', 'm': 25676342}, {'s': 'FRTY', 'n': 'Alger Mid Cap 40  
 ETF', 'i': 'Equity', 'm': 33834250}, {'s': 'FSBD', 'n': 'Fidelity Sustainable  
 Core Plus Bond ETF', 'i': 'Fixed Income', 'm': 11413660}, {'s': 'FSEC', 'n':  
 'Fidelity Investment Grade Securitized ETF', 'i': 'Fixed Income', 'm':  
 3095341.8}, {'s': 'FSEP', 'n': 'FT Vest U.S. Equity Buffer ETF - September',  
 'i': 'Equity', 'm': 505238500}, {'s': 'FSIG', 'n': 'First Trust Limited Duration  
 Investment Grade Corporate ETF', 'i': 'Fixed Income', 'm': 1080883500}, {'s':  
 'FSLD', 'n': 'Fidelity Sustainable Low Duration Bond ETF', 'i': 'Fixed Income',  
 'm': 3752220.2}, {'s': 'FSMB', 'n': 'First Trust Short Duration Managed  
 Municipal ETF', 'i': 'Fixed Income', 'm': 414286300}, {'s': 'FSMD', 'n':  
 'Fidelity Small-Mid Multifactor ETF', 'i': 'Equity', 'm': 213119650}, {'s':  
 'FSST', 'n': 'Fidelity Sustainable U.S. Equity ETF', 'i': 'Equity', 'm':  
 12993274}, {'s': 'FSTA', 'n': 'FIDELITY COVINGTON TRUST MSCI CONSUMER STAPLES  
 INDEX ETF', 'i': 'Equity', 'm': 1073584800}, {'s': 'FSYD', 'n': 'Fidelity  
 Sustainable High Yield ETF', 'i': 'Fixed Income', 'm': 18419618}, {'s': 'FSZ',  
 'n': 'First Trust Switzerland AlphaDEX Fund', 'i': 'Equity', 'm': 83878330},  
 {'s': 'FTA', 'n': 'First Trust Large Cap Value AlphaDEX Fund', 'i': 'Equity',  
 'm': 1197791900}, {'s': 'FTAG', 'n': 'First Trust Indxx Global Agriculture ETF',  
 'i': 'Equity', 'm': 10058583}, {'s': 'FTBD', 'n': 'Fidelity Tactical Bond ETF',  
 'i': 'Fixed Income', 'm': 14384396}, {'s': 'FTC', 'n': 'First Trust Large Cap  
 Growth AlphaDEX Fund', 'i': 'Equity', 'm': 1091747000}, {'s': 'FTCB', 'n':  
 'First Trust Core Investment Grade ETF', 'i': 'Fixed Income', 'm': 15318791},  
 {'s': 'FTCS', 'n': 'First Trust Capital Strength ETF', 'i': 'Equity', 'm':  
 8769175000}, {'s': 'FTDS', 'n': 'First Trust Dividend Strength ETF', 'i':  
 'Equity', 'm': 22178348}, {'s': 'FTEC', 'n': 'Fidelity MSCI Information  
 Technology Index ETF', 'i': 'Equity', 'm': 9680055000}, {'s': 'FTGC', 'n':

'First Trust Global Tactical Commodity Strategy Fund', 'i': 'Commodity', 'm': 2389560800}, {'s': 'FTGS', 'n': 'First Trust Growth Strength ETF', 'i': 'Equity', 'm': 223712020}, {'s': 'FTHF', 'n': 'First Trust Emerging Markets Human Flourishing ETF', 'i': 'Equity', 'm': 42966050}, {'s': 'FTHI', 'n': 'First Trust BuyWrite Income ETF', 'i': 'Equity', 'm': 573034000}, {'s': 'FTIF', 'n': 'First Trust Bloomberg Inflation Sensitive Equity ETF', 'i': 'Equity', 'm': 1224099}, {'s': 'FTLS', 'n': 'First Trust Long/Short Equity ETF', 'i': 'Alternatives', 'm': 1131127200}, {'s': 'FTQI', 'n': 'First Trust Nasdaq BuyWrite Income ETF', 'i': 'Equity', 'm': 280725950}, {'s': 'FTRB', 'n': 'Federated Hermes Total Return Bond ETF', 'i': 'Fixed Income', 'm': 66828696}, {'s': 'FTRI', 'n': 'First Trust Indxx Global Natural Resources Income ETF', 'i': 'Equity', 'm': 189315680}, {'s': 'FTSD', 'n': 'Franklin Short Duration U.S. Government ETF', 'i': 'Fixed Income', 'm': 145684720}, {'s': 'FTSL', 'n': 'First Trust Senior Loan Fund', 'i': 'Fixed Income', 'm': 2227220000}, {'s': 'FTSM', 'n': 'First Trust Enhanced Short Maturity ETF', 'i': 'Fixed Income', 'm': 6547538000}, {'s': 'FTWO', 'n': 'Strive FAANG 2.0 ETF', 'i': 'Equity', 'm': 9455754}, {'s': 'FTXG', 'n': 'First Trust Nasdaq Food & Beverage ETF', 'i': 'Equity', 'm': 53226850}, {'s': 'FTXH', 'n': 'First Trust Nasdaq Pharmaceuticals ETF', 'i': 'Equity', 'm': 19968804}, {'s': 'FTXL', 'n': 'First Trust Nasdaq Semiconductor ETF', 'i': 'Equity', 'm': 1433889300}, {'s': 'FTXN', 'n': 'First Trust Nasdaq Oil & Gas ETF', 'i': 'Equity', 'm': 230059870}, {'s': 'FTXO', 'n': 'First Trust Nasdaq Bank ETF', 'i': 'Equity', 'm': 108061850}, {'s': 'FTXR', 'n': 'First Trust Nasdaq Transportation ETF', 'i': 'Equity', 'm': 38287560}, {'s': 'FUMB', 'n': 'First Trust Ultra Short Duration Municipal ETF', 'i': 'Fixed Income', 'm': 214609940}, {'s': 'FUNL', 'n': 'CornerCap Fundametrics Large-Cap ETF', 'i': 'Equity', 'm': 195866080}, {'s': 'FUSI', 'n': 'American Century Multisector Floating Income ETF', 'i': 'Fixed Income', 'm': 20216800}, {'s': 'FUTY', 'n': 'Fidelity MSCI Utilities Index ETF', 'i': 'Equity', 'm': 1123473200}, {'s': 'FV', 'n': 'First Trust Dorsey Wright Focus 5 ETF', 'i': 'Equity', 'm': 3742835200}, {'s': 'FVAL', 'n': 'Fidelity Value Factor ETF', 'i': 'Equity', 'm': 782079040}, {'s': 'FVC', 'n': 'First Trust Dorsey Wright Dynamic Focus 5 ETF', 'i': 'Equity', 'm': 160497820}, {'s': 'FVD', 'n': 'First Trust Value Line Dividend Index Fund', 'i': 'Equity', 'm': 9775492000}, {'s': 'FWD', 'n': 'AB Disruptors ETF', 'i': 'Equity', 'm': 289987360}, {'s': 'FXA', 'n': 'Invesco CurrencyShares Australian Dollar Trust', 'i': 'Currency', 'm': 67767000}, {'s': 'FXB', 'n': 'Invesco CurrencyShares British Pound Sterling Trust', 'i': 'Currency', 'm': 60190000}, {'s': 'FXC', 'n': 'Invesco CurrencyShares Canadian Dollar Trust', 'i': 'Currency', 'm': 60605000}, {'s': 'FXD', 'n': 'First Trust Consumer Discretionary AlphaDEX Fund', 'i': 'Equity', 'm': 1488117500}, {'s': 'FXE', 'n': 'Invesco CurrencyShares Euro Trust', 'i': 'Currency', 'm': 187796000}, {'s': 'FXED', 'n': 'Sound Enhanced Fixed Income ETF', 'i': 'Fixed Income', 'm': 34649920}, {'s': 'FXF', 'n': 'Invesco CurrencyShares Swiss Franc Trust', 'i': 'Currency', 'm': 151326500}, {'s': 'FXG', 'n': 'First Trust Consumer Staples AlphaDEX Fund', 'i': 'Equity', 'm': 424992130}, {'s': 'FXH', 'n': 'First Trust Health Care AlphaDEX Fund', 'i': 'Equity', 'm': 1265732200}, {'s': 'FXI', 'n': 'iShares China Large-Cap ETF', 'i': 'Equity', 'm': 4575468000}, {'s': 'FXL', 'n': 'First Trust Technology AlphaDEX Fund', 'i': 'Equity', 'm': 1314992900}, {'s': 'FXN', 'n': 'First Trust



Energy AlphaDEX Fund', 'i': 'Equity', 'm': 653820000}, {'s': 'FX0', 'n': 'First Trust Financials AlphaDEX Fund', 'i': 'Equity', 'm': 836048600}, {'s': 'FXP', 'n': 'ProShares UltraShort FTSE China 50', 'i': 'Equity', 'm': 16029792}, {'s': 'FXR', 'n': 'First Trust Industrials/Producer Durables AlphaDEX Fund', 'i': 'Equity', 'm': 1942096300}, {'s': 'FXU', 'n': 'First Trust Utilities AlphaDEX Fund', 'i': 'Equity', 'm': 221204660}, {'s': 'FXY', 'n': 'Invesco Currencyshares Japanese Yen Trust', 'i': 'Currency', 'm': 359380000}, {'s': 'FXZ', 'n': 'First Trust Materials AlphaDEX Fund', 'i': 'Equity', 'm': 431605630}, {'s': 'FYC', 'n': 'First Trust Small Cap Growth AlphaDEX Fund', 'i': 'Equity', 'm': 263572740}, {'s': 'FYLD', 'n': 'Cambria Foreign Shareholder Yield ETF', 'i': 'Equity', 'm': 267573680}, {'s': 'FYLG', 'n': 'Global X Financials Covered Call & Growth ETF', 'i': 'Equity', 'm': 2584443}, {'s': 'FYT', 'n': 'First Trust Small Cap Value AlphaDEX Fund', 'i': 'Equity', 'm': 187668110}, {'s': 'FYX', 'n': 'First Trust Small Cap Core AlphaDEX Fund', 'i': 'Equity', 'm': 860913600}, {'s': 'GAA', 'n': 'Cambria Global Asset Allocation ETF', 'i': 'Asset Allocation', 'm': 52822524}, {'s': 'GABF', 'n': 'Gabelli Financial Services Opportunities ETF', 'i': 'Equity', 'm': 13480580}, {'s': 'GAL', 'n': 'SPDR SSgA Global Allocation ETF', 'i': 'Asset Allocation', 'm': 237174560}, {'s': 'GAMR', 'n': 'Amplify Video Game Tech ETF', 'i': 'Equity', 'm': 36998000}, {'s': 'GAPR', 'n': 'FT Vest U.S. Equity Moderate Buffer Fund - Apr', 'i': 'Equity', 'm': 98718820}, {'s': 'GAST', 'n': 'Gabelli Automation ETF', 'i': 'Equity', 'm': 4944560}, {'s': 'GAUG', 'n': 'FT Vest U.S. Equity Moderate Buffer ETF - August', 'i': 'Equity', 'm': 108530460}, {'s': 'GBF', 'n': 'iShares Government/Credit Bond ETF', 'i': 'Fixed Income', 'm': 233029570}, {'s': 'GBIL', 'n': 'Goldman Sachs Access Treasury 0-1 Year ETF', 'i': 'Fixed Income', 'm': 5596032000}, {'s': 'GBLD', 'n': 'Invesco MSCI Green Building ETF', 'i': 'Equity', 'm': 5684366}, {'s': 'GBTC', 'n': 'Grayscale Bitcoin Trust', 'i': 'Currency', 'm': 22133963000}, {'s': 'GBUY', 'n': 'Goldman Sachs Future Consumer Equity ETF', 'i': 'Equity', 'm': 55387500}, {'s': 'GCAD', 'n': 'Gabelli Commercial Aerospace and Defense ETF', 'i': 'Equity', 'm': 5269775}, {'s': 'GCC', 'n': 'WisdomTree Enhanced Commodity Strategy Fund', 'i': 'Commodity', 'm': 131676860}, {'s': 'GCLN', 'n': 'Goldman Sachs Bloomberg Clean Energy Equity ETF', 'i': 'Equity', 'm': 11389000}, {'s': 'GCOR', 'n': 'Goldman Sachs Access U.S. Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 416794500}, {'s': 'GCOW', 'n': 'Pacer Global Cash Cows Dividend ETF', 'i': 'Equity', 'm': 1934384100}, {'s': 'GDE', 'n': 'WisdomTree Efficient Gold Plus Equity Strategy Fund', 'i': 'Asset Allocation', 'm': 21207290}, {'s': 'GDEC', 'n': 'FT Vest U.S. Equity Moderate Buffer ETF - December', 'i': 'Equity', 'm': 196243180}, {'s': 'GDEF', 'n': 'Goldman Sachs Defensive Equity ETF', 'i': 'Equity', 'm': 7204450}, {'s': 'GDIV', 'n': 'Harbor Dividend Growth Leaders ETF', 'i': 'Equity', 'm': 267738640}, {'s': 'GDMA', 'n': 'Gadsden Dynamic Multi-Asset ETF', 'i': 'Asset Allocation', 'm': 150417000}, {'s': 'GDMN', 'n': 'WisdomTree Efficient Gold Plus Gold Miners Strategy Fund', 'i': 'Asset Allocation', 'm': 8613420}, {'s': 'GDOC', 'n': 'Goldman Sachs Future Health Care Equity ETF', 'i': 'Equity', 'm': 25500000}, {'s': 'GDVD', 'n': 'R3 Global Dividend Growth ETF', 'i': 'Equity', 'm': 25126400}, {'s': 'GDX', 'n': 'VanEck Gold Miners ETF', 'i': 'Equity', 'm': 14005249000}, {'s': 'GDXJ', 'n': 'VanEck Junior Gold Miners ETF', 'i': 'Equity', 'm': 4979623400}, {'s': 'GEM', 'n': 'Goldman Sachs ActiveBeta Emerging Markets Equity ETF', 'i': 'Equity', 'm':

940096000}, {'s': 'GEMD', 'n': 'Goldman Sachs Access Emerging Markets USD Bond  
 ETF', 'i': 'Fixed Income', 'm': 56364000}, {'s': 'GERM', 'n': 'Amplify  
 Treatments, Testing and Advancements ETF', 'i': 'Equity', 'm': 10360080}, {'s':  
 'GFEB', 'n': 'FT Vest US Equity Moderate Buffer ETF February', 'i': 'Equity',  
 'm': 400491070}, {'s': 'GFGF', 'n': 'Guru Favorite Stocks ETF Guru Favorite  
 Stocks Fund', 'i': 'Equity', 'm': 30050384}, {'s': 'GFOF', 'n': 'Grayscale  
 Future of Finance ETF', 'i': 'Equity', 'm': 6719880}, {'s': 'GGLL', 'n':  
 'Direxion Daily GOOGL Bull 2X Shares', 'i': 'Equity', 'm': 68016640}, {'s':  
 'GGLS', 'n': 'Direxion Daily GOOGL Bear 1X Shares ETF', 'i': 'Equity', 'm':  
 2253915}, {'s': 'GGM', 'n': 'GGM Macro Alignment ETF', 'i': 'Equity', 'm':  
 19224000}, {'s': 'GGME', 'n': 'Invesco Next Gen Media and Gaming ETF', 'i':  
 'Equity', 'm': 31601520}, {'s': 'GGRW', 'n': 'Gabelli Growth Innovators ETF',  
 'i': 'Equity', 'm': 4356930}, {'s': 'GGUS', 'n': 'Goldman Sachs MarketBeta  
 Russell 1000 Growth Equity ETF', 'i': 'Equity', 'm': 493912000}, {'s': 'GHEE',  
 'n': 'Goose Hollow Enhanced Equity ETF', 'i': 'Equity', 'm': 3220500}, {'s':  
 'GHMS', 'n': 'Goose Hollow Multi-Strategy Income ETF', 'i': 'Fixed Income', 'm':  
 11541960}, {'s': 'GHTA', 'n': 'Goose Hollow Tactical Allocation ETF', 'i':  
 'Asset Allocation', 'm': 34845110}, {'s': 'GHYB', 'n': 'Goldman Sachs Access  
 High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 132858000}, {'s':  
 'GHYG', 'n': 'iShares US & Intl High Yield Corp Bond ETF', 'i': 'Fixed Income',  
 'm': 129814200}, {'s': 'GIGB', 'n': 'Goldman Sachs Access Investment Grade  
 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 728773000}, {'s': 'GII', 'n':  
 'SPDR S&P Global Infrastructure ETF', 'i': 'Equity', 'm': 395257180}, {'s':  
 'GINN', 'n': 'Goldman Sachs Innovate Equity ETF', 'i': 'Equity', 'm':  
 340704000}, {'s': 'GINX', 'n': 'SGI Global Enhanced Income ETF', 'i': 'Equity',  
 'm': 51032100}, {'s': 'GJAN', 'n': 'FT Vest U.S. Equity Moderate Buffer ETF -  
 Jan', 'i': 'Equity', 'm': 283612030}, {'s': 'GJUL', 'n': 'FT Vest U.S. Equity  
 Moderate Buffer ETF - July', 'i': 'Equity', 'm': 263374860}, {'s': 'GJUN', 'n':  
 'FT Vest U.S. Equity Moderate Buffer ETF - June', 'i': 'Equity', 'm':  
 201652620}, {'s': 'GK', 'n': 'AdvisorShares Gerber Kawasaki ETF', 'i': 'Equity',  
 'm': 20959200}, {'s': 'GLD', 'n': 'SPDR Gold Shares', 'i': 'Commodity', 'm':  
 63957148000}, {'s': 'GLDM', 'n': 'SPDR Gold MiniShares Trust', 'i': 'Commodity',  
 'm': 7787433500}, {'s': 'GLIF', 'n': 'AGF Global Infrastructure ETF', 'i':  
 'Equity', 'm': 3904176}, {'s': 'GLIN', 'n': 'VanEck India Growth Leaders ETF',  
 'i': 'Equity', 'm': 137650690}, {'s': 'GLL', 'n': 'ProShares UltraShort Gold',  
 'i': 'Commodity', 'm': 17644990}, {'s': 'GLOF', 'n': 'iShares Global Equity  
 Factor ETF', 'i': 'Equity', 'm': 123087600}, {'s': 'GLOV', 'n': 'Goldman Sachs  
 ActiveBeta World Low Vol Plus Equity ETF', 'i': 'Equity', 'm': 846923000}, {'s':  
 'GLRY', 'n': 'Inspire Momentum ETF', 'i': 'Equity', 'm': 58600000}, {'s':  
 'GLTR', 'n': 'abrdn Physical Precious Metals Basket Shares ETF', 'i':  
 'Commodity', 'm': 1022282900}, {'s': 'GMAR', 'n': 'FT Vest U.S. Equity Moderate  
 Buffer ETF - March', 'i': 'Equity', 'm': 300026080}, {'s': 'GMAY', 'n': 'FT Vest  
 U.S. Equity Moderate Buffer ETF - May', 'i': 'Equity', 'm': 94535990}, {'s':  
 'GMET', 'n': 'VanEck Green Metals ETF', 'i': 'Equity', 'm': 26149790}, {'s':  
 'GMF', 'n': 'SPDR S&P Emerging Asia Pacific ETF', 'i': 'Equity', 'm':  
 345465860}, {'s': 'GMOM', 'n': 'Cambria Global Momentum ETF', 'i': 'Asset  
 Allocation', 'm': 143786140}, {'s': 'GMUN', 'n': 'Goldman Sachs Community  
 Municipal Bond ETF', 'i': 'Fixed Income', 'm': 9874000}, {'s': 'GNMA', 'n':

'iShares GNMA Bond ETF', 'i': 'Fixed Income', 'm': 322457340}, {'s': 'GNOM',  
 'n': 'Global X Genomics & Biotechnology ETF', 'i': 'Equity', 'm': 99344856},  
 {'s': 'GNOV', 'n': 'FT Vest U.S. Equity Moderate Buffer ETF -November', 'i':  
 'Equity', 'm': 170148900}, {'s': 'GNR', 'n': 'SPDR S&P Global Natural Resources  
 ETF', 'i': 'Equity', 'm': 3444720600}, {'s': 'GOAU', 'n': 'U.S. Global GO GOLD  
 and Precious Metal Miners ETF', 'i': 'Equity', 'm': 97716000}, {'s': 'GOCT',  
 'n': 'FT Vest U.S. Equity Moderate Buffer ETF - October', 'i': 'Equity', 'm':  
 101900570}, {'s': 'GOEX', 'n': 'Global X Gold Explorers ETF', 'i': 'Equity',  
 'm': 38331510}, {'s': 'GOLY', 'n': 'Strategy Shares Gold-Hedged Bond ETF', 'i':  
 'Asset Allocation', 'm': 3385500}, {'s': 'GOOP', 'n': 'Kurv Yield Premium  
 Strategy Google (GOOGL) ETF', 'i': 'Equity', 'm': 577200}, {'s': 'GOOX', 'n':  
 'T-Rex 2X Long Alphabet Daily Target ETF', 'i': 'Equity', 'm': 5937460}, {'s':  
 'GOOY', 'n': 'YieldMax GOOGL Option Income Strategy ETF', 'i': 'Equity', 'm':  
 31104744}, {'s': 'GOVI', 'n': 'Invesco Equal Weight 0-30 Year Treasury ETF',  
 'i': 'Fixed Income', 'm': 664737200}, {'s': 'GOVT', 'n': 'iShares U.S. Treasury  
 Bond ETF', 'i': 'Fixed Income', 'm': 25135230000}, {'s': 'GOVZ', 'n': 'iShares  
 25+ Year Treasury STRIPS Bond ETF', 'i': 'Fixed Income', 'm': 190535800}, {'s':  
 'GPIQ', 'n': 'Goldman Sachs Nasdaq 100 Core Premium Income ETF', 'i': 'Equity',  
 'm': 50456100}, {'s': 'GPIX', 'n': 'Goldman Sachs S&P 500 Core Premium Income  
 ETF', 'i': 'Equity', 'm': 78693000}, {'s': 'GPOW', 'n': 'Goldman Sachs North  
 American Pipelines & Power Equity ETF', 'i': 'Equity', 'm': 6580500}, {'s':  
 'GQI', 'n': 'Natixis Gateway Quality Income ETF', 'i': 'Equity', 'm': 85557010},  
 {'s': 'GQRE', 'n': 'FlexShares Global Quality Real Estate Index Fund Global  
 Quality Real Estate Index Fund', 'i': 'Equity', 'm': 303403600}, {'s': 'GREI',  
 'n': 'Goldman Sachs Future Real Estate and Infrastructure Equity ETF', 'i':  
 'Equity', 'm': 17847500}, {'s': 'GREK', 'n': 'Global X MSCI Greece ETF', 'i':  
 'Equity', 'm': 194756080}, {'s': 'GRID', 'n': 'First Trust Nasdaq Clean Edge  
 Smart GRID Infrastructure Index', 'i': 'Equity', 'm': 998935100}, {'s': 'GRNB',  
 'n': 'VanEck Green Bond ETF', 'i': 'Fixed Income', 'm': 92047640}, {'s': 'GRPM',  
 'n': 'Invesco S&P MidCap 400 GARP ETF', 'i': 'Equity', 'm': 386634200}, {'s':  
 'GRPZ', 'n': 'Invesco S&P SmallCap 600 GARP ETF', 'i': 'Equity', 'm':  
 2948560.2}, {'s': 'GSC', 'n': 'Goldman Sachs Small Cap Core Equity ETF', 'i':  
 'Equity', 'm': 26169000}, {'s': 'GSEE', 'n': 'Goldman Sachs MarketBeta Emerging  
 Markets Equity ETF', 'i': 'Equity', 'm': 111486000}, {'s': 'GSEP', 'n': 'FT Vest  
 U.S. Equity Moderate Buffer ETF - September', 'i': 'Equity', 'm': 122746264},  
 {'s': 'GSEU', 'n': 'Goldman Sachs ActiveBeta Europe Equity ETF', 'i': 'Equity',  
 'm': 10665000}, {'s': 'GSEW', 'n': 'Goldman Sachs Equal Weight U.S. Large Cap  
 Equity ETF', 'i': 'Equity', 'm': 650382000}, {'s': 'GSFP', 'n': 'Goldman Sachs  
 Future Planet Equity ETF', 'i': 'Equity', 'm': 42868000}, {'s': 'GSG', 'n':  
 'iShares S&P GSCI Commodity Indexed Trust', 'i': 'Commodity', 'm': 1072754240},  
 {'s': 'GSIB', 'n': 'Themes Global Systemically Important Banks ETF', 'i':  
 'Equity', 'm': 545716}, {'s': 'GSID', 'n': 'Goldman Sachs MarketBeta  
 International Equity ETF', 'i': 'Equity', 'm': 739214000}, {'s': 'GSIE', 'n':  
 'Goldman Sachs ActiveBeta International Equity ETF', 'i': 'Equity', 'm':  
 3547292000}, {'s': 'GSIG', 'n': 'Goldman Sachs Access Investment Grade Corporate  
 1-5 Year Bond ETF', 'i': 'Fixed Income', 'm': 9236000}, {'s': 'GSJY', 'n':  
 'Goldman Sachs ActiveBeta Japan Equity ETF', 'i': 'Equity', 'm': 23070000},  
 {'s': 'GSLC', 'n': 'Goldman Sachs ActiveBeta U.S. Large Cap Equity ETF', 'i':

'Equity', 'm': 11934266000}, {'s': 'GSPY', 'n': 'Gotham Enhanced 500 ETF', 'i':  
 'Equity', 'm': 422254370}, {'s': 'GSSC', 'n': 'Goldman Sachs Activebeta U.S.  
 Small Cap Equity ETF', 'i': 'Equity', 'm': 489412500}, {'s': 'GSST', 'n':  
 'Goldman Sachs Access Ultra Short Bond ETF', 'i': 'Fixed Income', 'm':  
 586755000}, {'s': 'GSUS', 'n': 'Goldman Sachs MarketBeta U.S. Equity ETF', 'i':  
 'Equity', 'm': 1862141400}, {'s': 'GSY', 'n': 'Invesco Ultra Short Duration  
 ETF', 'i': 'Fixed Income', 'm': 1941615700}, {'s': 'GTEK', 'n': 'Goldman Sachs  
 Future Tech Leaders Equity ETF', 'i': 'Equity', 'm': 179278750}, {'s': 'GTIP',  
 'n': 'Goldman Sachs Access Inflation Protected USD Bond ETF', 'i': 'Fixed  
 Income', 'm': 116666750}, {'s': 'GTO', 'n': 'Invesco Total Return Bond ETF',  
 'i': 'Fixed Income', 'm': 1240191000}, {'s': 'GTR', 'n': 'WisdomTree Target  
 Range Fund', 'i': 'Equity', 'm': 61988004}, {'s': 'GUNR', 'n': 'FlexShares  
 Morningstar Global Upstream Natural Resources Index Fund FlexShares Morningstar  
 Global Upstream Natural Resurs Idx', 'i': 'Equity', 'm': 6699695000}, {'s':  
 'GURU', 'n': 'Global X Guru Index ETF', 'i': 'Equity', 'm': 41990156}, {'s':  
 'GUSA', 'n': 'Goldman Sachs MarketBeta U.S. 1000 Equity ETF', 'i': 'Equity',  
 'm': 1612330900}, {'s': 'GUSH', 'n': 'Direxion Daily S&P Oil & Gas Exp. & Prod.  
 Bull 2X Shares', 'i': 'Equity', 'm': 550275260}, {'s': 'GVAL', 'n': 'Cambria  
 Global Value ETF', 'i': 'Equity', 'm': 114696730}, {'s': 'GVI', 'n': 'iShares  
 Intermediate Government/Credit Bond ETF', 'i': 'Fixed Income', 'm': 3163993000},  
 {'s': 'GVIP', 'n': 'Goldman Sachs Hedge Industry VIP ETF', 'i': 'Equity', 'm':  
 179157000}, {'s': 'GVLU', 'n': 'Gotham 1000 Value ETF', 'i': 'Equity', 'm':  
 159780500}, {'s': 'GVUS', 'n': 'Goldman Sachs MarketBeta Russell 1000 Value  
 Equity ETF', 'i': 'Equity', 'm': 396066000}, {'s': 'GWX', 'n': 'SPDR S&P  
 International Small Cap ETF', 'i': 'Equity', 'm': 634330000}, {'s': 'GXC', 'n':  
 'SPDR S&P China ETF', 'i': 'Equity', 'm': 482457100}, {'s': 'GXG', 'n': 'Global  
 X MSCI Colombia ETF', 'i': 'Equity', 'm': 47253036}, {'s': 'GXTG', 'n': 'Global  
 X Thematic Growth ETF', 'i': 'Equity', 'm': 22917268}, {'s': 'GXUS', 'n':  
 'Goldman Sachs MarketBeta Total International Equity ETF', 'i': 'Equity', 'm':  
 442758880}, {'s': 'GYLD', 'n': 'Arrow Dow Jones Global Yield ETF', 'i': 'Asset  
 Allocation', 'm': 21945000}, {'s': 'HACK', 'n': 'Amplify Cybersecurity ETF',  
 'i': 'Equity', 'm': 1828970000}, {'s': 'HAIL', 'n': 'SPDR S&P Kensho Smart  
 Mobility ETF', 'i': 'Equity', 'm': 34986390}, {'s': 'HAP', 'n': 'VanEck Natural  
 Resources ETF', 'i': 'Equity', 'm': 114494160}, {'s': 'HAPI', 'n': 'Harbor Human  
 Capital Factor US Large Cap ETF', 'i': 'Equity', 'm': 324058500}, {'s': 'HAPR',  
 'n': 'Innovator Premium Income 9 Buffer ETF - April', 'i': 'Equity', 'm':  
 1244100}, {'s': 'HAPS', 'n': 'Harbor Human Capital Factor US Small Cap ETF',  
 'i': 'Equity', 'm': 120951000}, {'s': 'HAPY', 'n': 'Harbor Human Capital Factor  
 Unconstrained ETF', 'i': 'Equity', 'm': 12586750}, {'s': 'HARD', 'n': 'Simplify  
 Commodities Strategy No K-1 ETF', 'i': 'Commodity', 'm': 8388824}, {'s': 'HART',  
 'n': 'IQ Healthy Hearts ETF', 'i': 'Equity', 'm': 8758500}, {'s': 'HAUS', 'n':  
 'Residential REIT ETF', 'i': 'Equity', 'm': 2166372}, {'s': 'HAUZ', 'n':  
 'Xtrackers International Real Estate ETF', 'i': 'Equity', 'm': 684670500}, {'s':  
 'HAWX', 'n': 'iShares Currency Hedged MSCI ACWI ex U.S. ETF', 'i': 'Equity',  
 'm': 213984580}, {'s': 'HCMT', 'n': 'Direxion HCM Tactical Enhanced US ETF',  
 'i': 'Equity', 'm': 289255070}, {'s': 'HCOM', 'n': 'Hartford Schrodgers Commodity  
 Strategy ETF', 'i': 'Commodity', 'm': 11071330}, {'s': 'HCOW', 'n': 'Amplify  
 Cash Flow High Income ETF', 'i': 'Equity', 'm': 3174528}, {'s': 'HCRB', 'n':

'Hartford Core Bond ETF', 'i': 'Fixed Income', 'm': 257512380}, {'s': 'HDAW',  
 'n': 'Xtrackers MSCI All World ex US High Dividend Yield Equity ETF', 'i':  
 'Equity', 'm': 11123125}, {'s': 'HDEF', 'n': 'Xtrackers MSCI EAFE High Dividend  
 Yield Equity ETF', 'i': 'Equity', 'm': 1479687300}, {'s': 'HDG', 'n': 'ProShares  
 Hedge Replication ETF', 'i': 'Alternatives', 'm': 28200588}, {'s': 'HDGE', 'n':  
 'AdvisorShares Ranger Equity Bear ETF', 'i': 'Equity', 'm': 76622290}, {'s':  
 'HDMV', 'n': 'First Trust Horizon Managed Volatility Developed Intl ETF', 'i':  
 'Equity', 'm': 32792308}, {'s': 'HDR0', 'n': 'Defiance Next Gen H2 ETF', 'i':  
 'Equity', 'm': 20809250}, {'s': 'HDUS', 'n': 'Hartford Disciplined US Equity  
 ETF', 'i': 'Equity', 'm': 112659070}, {'s': 'HDV', 'n': 'iShares Core High  
 Dividend ETF', 'i': 'Equity', 'm': 10173019000}, {'s': 'HEAT', 'n': 'Touchstone  
 Climate Transition ETF', 'i': 'Equity', 'm': 11419200}, {'s': 'HEDJ', 'n':  
 'WisdomTree Europe Hedged Equity Fund', 'i': 'Equity', 'm': 1919365800}, {'s':  
 'HEEM', 'n': 'iShares Currency Hedged MSCI Emerging Markets ETF', 'i': 'Equity',  
 'm': 141376350}, {'s': 'HEFA', 'n': 'iShares Currency Hedged MSCI EAFE ETF',  
 'i': 'Equity', 'm': 6429509000}, {'s': 'HEGD', 'n': 'Swan Hedged Equity US Large  
 Cap ETF', 'i': 'Equity', 'm': 244455740}, {'s': 'HELO', 'n': 'JPMorgan Hedged  
 Equity Laddered Overlay ETF JPMorgan Hedged Equity Laddered Overlay ETF', 'i':  
 'Equity', 'm': 481361250}, {'s': 'HELX', 'n': 'Franklin Genomic Advancements  
 Fund Franklin Genomic Advancements Fund', 'i': 'Equity', 'm': 9567000}, {'s':  
 'HEQT', 'n': 'Simplify Hedged Equity ETF', 'i': 'Equity', 'm': 149905150}, {'s':  
 'HERD', 'n': 'Pacer Cash Cows Fund of Funds ETF', 'i': 'Equity', 'm': 94614344},  
 {'s': 'HERO', 'n': 'Global X Video Games & Esports ETF', 'i': 'Equity', 'm':  
 128169336}, {'s': 'HEWG', 'n': 'iShares Currency Hedged MSCI Germany ETF', 'i':  
 'Equity', 'm': 32949040}, {'s': 'HEWJ', 'n': 'iShares Currency Hedged MSCI Japan  
 ETF', 'i': 'Equity', 'm': 324186370}, {'s': 'HEZU', 'n': 'iShares Currency  
 Hedged MSCI Eurozone ETF', 'i': 'Equity', 'm': 410973280}, {'s': 'HF', 'n': 'DGA  
 Absolute Return ETF', 'i': 'Alternatives', 'm': 17986908}, {'s': 'HFG0', 'n':  
 'Hartford Large Cap Growth ETF', 'i': 'Equity', 'm': 119070000}, {'s': 'HFND',  
 'n': 'Unlimited HFND Multi-Strategy Return Tracker ETF', 'i': 'Alternatives',  
 'm': 38322250}, {'s': 'HFXI', 'n': 'IQ FTSE International Equity Currency  
 Neutral ETF', 'i': 'Equity', 'm': 568409300}, {'s': 'HGER', 'n': 'Harbor  
 Commodity All-Weather Strategy ETF', 'i': 'Commodity', 'm': 149175000}, {'s':  
 'HIBL', 'n': 'Direxion Daily S&P 500 High Beta Bull 3X Shares', 'i': 'Equity',  
 'm': 58012380}, {'s': 'HIBS', 'n': 'Direxion Daily S&P 500 High Beta Bear 3X  
 Shares', 'i': 'Equity', 'm': 39170190}, {'s': 'HIDE', 'n': 'Alpha Architect High  
 Inflation & Deflation ETF', 'i': 'Asset Allocation', 'm': 21976896}, {'s':  
 'HIDV', 'n': 'AB US High Dividend ETF', 'i': 'Equity', 'm': 12684548}, {'s':  
 'HIGH', 'n': 'Simplify Enhanced Income ETF', 'i': 'Fixed Income', 'm':  
 394641440}, {'s': 'HIPS', 'n': 'GraniteShares HIPS US High Income ETF', 'i':  
 'Asset Allocation', 'm': 70728000}, {'s': 'HISF', 'n': 'First Trust High Income  
 Strategic Focus ETF', 'i': 'Fixed Income', 'm': 32592836}, {'s': 'HIYS', 'n':  
 'Invesco High Yield Select ETF', 'i': 'Fixed Income', 'm': 10069625}, {'s':  
 'HJAN', 'n': 'Innovator Premium Income 9 Buffer ETF - January', 'i': 'Equity',  
 'm': 8637405}, {'s': 'HJEN', 'n': 'Direxion Hydrogen ETF', 'i': 'Equity', 'm':  
 21405172}, {'s': 'HKND', 'n': 'Humankind US Stock ETF', 'i': 'Equity', 'm':  
 137970000}, {'s': 'HLAL', 'n': 'Wahed FTSE USA Shariah ETF', 'i': 'Equity', 'm':  
 428297760}, {'s': 'HLGE', 'n': 'Hartford Longevity Economy ETF', 'i': 'Equity',

'm': 10215940}, {'s': 'HMOP', 'n': 'Hartford Municipal Opportunities ETF', 'i':  
 'Fixed Income', 'm': 400389600}, {'s': 'HNDL', 'n': 'Strategy Shares Nasdaq  
 7HANDL Index ETF', 'i': 'Asset Allocation', 'm': 836546500}, {'s': 'HOCT', 'n':  
 'Innovator Premium Income 9 Buffer ETF - October', 'i': 'Equity', 'm':  
 13848588}, {'s': 'HODL', 'n': 'VanEck Bitcoin Trust', 'i': 'Currency', 'm':  
 635967360}, {'s': 'HOMZ', 'n': 'Hoya Capital Housing ETF', 'i': 'Equity', 'm':  
 40545144}, {'s': 'HQGO', 'n': 'Hartford US Quality Growth ETF', 'i': 'Equity',  
 'm': 5798187.5}, {'s': 'HRTS', 'n': 'Tema Obesity & Cardiometabolic ETF', 'i':  
 'Equity', 'm': 60983320}, {'s': 'HSCZ', 'n': 'iShares Currency Hedged MSCI EAFE  
 Small-Cap ETF', 'i': 'Equity', 'm': 124682616}, {'s': 'HSMV', 'n': 'First Trust  
 Horizon Managed Volatility Small/Mid ETF', 'i': 'Equity', 'm': 18069216}, {'s':  
 'HSRT', 'n': 'Hartford AAA CLO ETF', 'i': 'Fixed Income', 'm': 105321330}, {'s':  
 'HSUN', 'n': 'Hartford Sustainable Income ETF', 'i': 'Fixed Income', 'm':  
 55303380}, {'s': 'HTAB', 'n': 'Hartford Schroders Tax-Aware Bond ETF', 'i':  
 'Fixed Income', 'm': 245387520}, {'s': 'HTEC', 'n': 'ROBO Global Healthcare  
 Technology and Innovation ETF', 'i': 'Equity', 'm': 62786100}, {'s': 'HTRB',  
 'n': 'Hartford Total Return Bond ETF', 'i': 'Fixed Income', 'm': 1484280000},  
 {'s': 'HTUS', 'n': 'Hull Tactical US ETF', 'i': 'Equity', 'm': 44389788}, {'s':  
 'HUSV', 'n': 'First Trust Horizon Managed Volatility Domestic ETF', 'i':  
 'Equity', 'm': 84581416}, {'s': 'HYBB', 'n': 'iShares BB Rated Corporate Bond  
 ETF', 'i': 'Fixed Income', 'm': 365672060}, {'s': 'HYBL', 'n': 'SPDR Blackstone  
 High Income ETF', 'i': 'Fixed Income', 'm': 149864540}, {'s': 'HYD', 'n':  
 'VanEck High Yield Muni ETF', 'i': 'Fixed Income', 'm': 2904476400}, {'s':  
 'HYDB', 'n': 'iShares High Yield Systematic Bond ETF', 'i': 'Fixed Income', 'm':  
 535614560}, {'s': 'HYDR', 'n': 'Global X Hydrogen ETF', 'i': 'Equity', 'm':  
 38530652}, {'s': 'HYDW', 'n': 'Xtrackers Low Beta High Yield Bond ETF', 'i':  
 'Fixed Income', 'm': 213685550}, {'s': 'HYEM', 'n': 'VanEck Emerging Markets  
 High Yield Bond ETF', 'i': 'Fixed Income', 'm': 366050850}, {'s': 'HYFI', 'n':  
 'AB High Yield ETF', 'i': 'Fixed Income', 'm': 127768020}, {'s': 'HYG', 'n':  
 'iShares iBoxx \$ High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm':  
 14494820000}, {'s': 'HYGH', 'n': 'iShares Interest Rate Hedged High Yield Bond  
 ETF', 'i': 'Fixed Income', 'm': 229644720}, {'s': 'HYGI', 'n': 'iShares  
 Inflation Hedged High Yield Bond ETF', 'i': 'Fixed Income', 'm': 2588080}, {'s':  
 'HYGV', 'n': 'FlexShares High Yield Value-Scored Bond Index Fund High Yield  
 Value Scored US Bond Index Fund', 'i': 'Fixed Income', 'm': 1404915100}, {'s':  
 'HYGW', 'n': 'iShares High Yield Corporate Bond BuyWrite Strategy ETF', 'i':  
 'Fixed Income', 'm': 63644930}, {'s': 'HYHG', 'n': 'ProShares High Yield-  
 Interest Rate Hedged ETF', 'i': 'Fixed Income', 'm': 135859800}, {'s': 'HYIN',  
 'n': 'WisdomTree Alternative Income Fund', 'i': 'Asset Allocation', 'm':  
 15874144}, {'s': 'HYKE', 'n': 'Vest 2 Year Interest Rate Hedge ETF', 'i':  
 'Alternatives', 'm': 740725}, {'s': 'HYLB', 'n': 'Xtrackers USD High Yield  
 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 3152169700}, {'s': 'HYLG', 'n':  
 'Global X Health Care Covered Call & Growth ETF', 'i': 'Equity', 'm': 2748619},  
 {'s': 'HYLS', 'n': 'First Trust Tactical High Yield ETF', 'i': 'Fixed Income',  
 'm': 1453023100}, {'s': 'HYMB', 'n': 'SPDR Nuveen Bloomberg High Yield Municipal  
 Bond ETF', 'i': 'Fixed Income', 'm': 2561483000}, {'s': 'HYMU', 'n': 'BlackRock  
 High Yield Muni Income Bond ETF', 'i': 'Fixed Income', 'm': 90376710}, {'s':  
 'HYRM', 'n': 'Xtrackers Risk Managed USD High Yield Strategy ETF', 'i': 'Fixed

Income', 'm': 42226270}, {'s': 'HYS', 'n': 'PIMCO 0-5 Year High Yield Corporate Bond Index Exchange-Traded Fund PIMCO 0-5 Year High Yield Corporate Bond Index', 'i': 'Fixed Income', 'm': 1203210000}, {'s': 'HYSA', 'n': 'BondBloxx USD High Yield Bond Sector Rotation ETF', 'i': 'Fixed Income', 'm': 39375710}, {'s': 'HYTR', 'n': 'CP High Yield Trend ETF', 'i': 'Fixed Income', 'm': 85000000}, {'s': 'HYUP', 'n': 'Xtrackers High Beta High Yield Bond ETF', 'i': 'Fixed Income', 'm': 12143440}, {'s': 'HYXF', 'n': 'iShares ESG Advanced High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 127553460}, {'s': 'HYXU', 'n': 'iShares International High Yield Bond ETF', 'i': 'Fixed Income', 'm': 48104600}, {'s': 'HYZD', 'n': 'WisdomTree Interest Rate Hedged High Yield Bond Fund', 'i': 'Fixed Income', 'm': 169384600}, {'s': 'IAGG', 'n': 'iShares Core International Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 5782486000}, {'s': 'IAI', 'n': 'iShares U.S. Broker-Dealers & Securities Exchanges ETF', 'i': 'Equity', 'm': 1051471600}, {'s': 'IAK', 'n': 'iShares U.S. Insurance ETF', 'i': 'Equity', 'm': 586623040}, {'s': 'IAPR', 'n': 'Innovator International Developed Power Buffer ETF - April', 'i': 'Equity', 'm': 211088000}, {'s': 'IAT', 'n': 'iShares U.S. Regional Banks ETF', 'i': 'Equity', 'm': 609271360}, {'s': 'IAU', 'n': 'iShares Gold Trust', 'i': 'Commodity', 'm': 28911630000}, {'s': 'IAUF', 'n': 'iShares Gold Strategy ETF', 'i': 'Commodity', 'm': 40194376}, {'s': 'IAUM', 'n': 'iShares Gold Trust Micro ETF of Benef Interest', 'i': 'Commodity', 'm': 1171670500}, {'s': 'IBAT', 'n': 'iShares Energy Storage & Materials ETF', 'i': 'Equity', 'm': 8804700}, {'s': 'IBB', 'n': 'iShares Biotechnology ETF', 'i': 'Equity', 'm': 7125048000}, {'s': 'IBBQ', 'n': 'Invesco Nasdaq Biotechnology ETF', 'i': 'Equity', 'm': 31317022}, {'s': 'IBD', 'n': 'Inspire Corporate Bond ETF', 'i': 'Fixed Income', 'm': 258944000}, {'s': 'IBDP', 'n': 'iShares iBonds Dec 2024 Term Corporate ETF', 'i': 'Fixed Income', 'm': 2668513500}, {'s': 'IBDQ', 'n': 'iShares iBonds Dec 2025 Term Corporate ETF', 'i': 'Fixed Income', 'm': 2631572000}, {'s': 'IBDR', 'n': 'iShares iBonds Dec 2026 Term Corporate ETF', 'i': 'Fixed Income', 'm': 2543256600}, {'s': 'IBDS', 'n': 'iShares iBonds Dec 2027 Term Corporate ETF', 'i': 'Fixed Income', 'm': 2245883600}, {'s': 'IBDT', 'n': 'iShares iBonds Dec 2028 Term Corporate ETF', 'i': 'Fixed Income', 'm': 1749146000}, {'s': 'IBDU', 'n': 'iShares iBonds Dec 2029 Term Corporate ETF', 'i': 'Fixed Income', 'm': 1266622600}, {'s': 'IBDV', 'n': 'iShares iBonds Dec 2030 Term Corporate ETF', 'i': 'Fixed Income', 'm': 842757600}, {'s': 'IBDW', 'n': 'iShares iBonds Dec 2031 Term Corporate ETF', 'i': 'Fixed Income', 'm': 781605100}, {'s': 'IBDX', 'n': 'iShares iBonds Dec 2032 Term Corporate ETF', 'i': 'Fixed Income', 'm': 551447600}, {'s': 'IBDY', 'n': 'iShares iBonds Dec 2033 Term Corporate ETF', 'i': 'Fixed Income', 'm': 385217020}, {'s': 'IBHD', 'n': 'iShares iBonds 2024 Term High Yield & Income ETF', 'i': 'Fixed Income', 'm': 472321470}, {'s': 'IBHE', 'n': 'iShares iBonds 2025 Term High Yield & Income ETF', 'i': 'Fixed Income', 'm': 482256320}, {'s': 'IBHF', 'n': 'iShares iBonds 2026 Term High Yield and Income ETF', 'i': 'Fixed Income', 'm': 355085630}, {'s': 'IBHG', 'n': 'iShares iBonds 2027 Term High Yield and Income ETF', 'i': 'Fixed Income', 'm': 100694000}, {'s': 'IBHH', 'n': 'iShares iBonds 2028 Term High Yield and Income ETF', 'i': 'Fixed Income', 'm': 69931930}, {'s': 'IBHI', 'n': 'iShares iBonds 2029 Term High Yield and Income ETF', 'i': 'Fixed Income', 'm': 37677750}, {'s': 'IBHJ', 'n': 'iShares iBonds 2030 Term High Yield and Income ETF', 'i': 'Fixed Income', 'm': 17878630}, {'s':

'IBIA', 'n': 'iShares iBonds Oct 2024 Term TIPS ETF', 'i': 'Fixed Income', 'm': 12666900}, {'s': 'IBIB', 'n': 'iShares iBonds Oct 2025 Term TIPS ETF', 'i': 'Fixed Income', 'm': 15217380}, {'s': 'IBIC', 'n': 'iShares iBonds Oct 2026 Term TIPS ETF', 'i': 'Fixed Income', 'm': 16445585}, {'s': 'IBID', 'n': 'iShares iBonds Oct 2027 Term TIPS ETF', 'i': 'Fixed Income', 'm': 13863575}, {'s': 'IBIE', 'n': 'iShares iBonds Oct 2028 Term TIPS ETF', 'i': 'Fixed Income', 'm': 13821775}, {'s': 'IBIF', 'n': 'iShares iBonds Oct 2029 Term TIPS ETF', 'i': 'Fixed Income', 'm': 11309805}, {'s': 'IBIG', 'n': 'iShares iBonds Oct 2030 Term TIPS ETF', 'i': 'Fixed Income', 'm': 11299545}, {'s': 'IBIH', 'n': 'iShares iBonds Oct 2031 Term TIPS ETF', 'i': 'Fixed Income', 'm': 8766100}, {'s': 'IBII', 'n': 'iShares iBonds Oct 2032 Term TIPS ETF', 'i': 'Fixed Income', 'm': 9970960}, {'s': 'IBIJ', 'n': 'iShares iBonds Oct 2033 Term TIPS ETF', 'i': 'Fixed Income', 'm': 13733610}, {'s': 'IBIT', 'n': 'iShares Bitcoin Trust Registered', 'i': 'Currency', 'm': 18923577000}, {'s': 'IBLC', 'n': 'iShares Blockchain and Tech ETF', 'i': 'Equity', 'm': 17867200}, {'s': 'IBMM', 'n': 'iShares iBonds Dec 2024 Term Muni Bond ETF', 'i': 'Fixed Income', 'm': 482523070}, {'s': 'IBMN', 'n': 'iShares iBonds Dec 2025 Term Muni Bond ETF', 'i': 'Fixed Income', 'm': 534597980}, {'s': 'IBMO', 'n': 'iShares iBonds Dec 2026 Term Muni Bond ETF', 'i': 'Fixed Income', 'm': 448958720}, {'s': 'IBMP', 'n': 'iShares iBonds Dec 2027 Term Muni Bond ETF', 'i': 'Fixed Income', 'm': 418426720}, {'s': 'IBMQ', 'n': 'iShares iBonds Dec 2028 Term Muni Bond ETF', 'i': 'Fixed Income', 'm': 313371260}, {'s': 'IBMR', 'n': 'iShares iBonds Dec 2029 Term Muni Bond ETF', 'i': 'Fixed Income', 'm': 94881060}, {'s': 'IBND', 'n': 'SPDR Bloomberg International Corporate Bond ETF', 'i': 'Fixed Income', 'm': 160474820}, {'s': 'IBOT', 'n': 'Vaneck Robotics ETF', 'i': 'Equity', 'm': 9758290}, {'s': 'IBRN', 'n': 'iShares Neuroscience and Healthcare ETF', 'i': 'Equity', 'm': 3685740}, {'s': 'IBTE', 'n': 'iShares iBonds Dec 2024 Term Treasury ETF', 'i': 'Fixed Income', 'm': 2876755500}, {'s': 'IBTF', 'n': 'iShares iBonds Dec 2025 Term Treasury ETF', 'i': 'Fixed Income', 'm': 2229403100}, {'s': 'IBTG', 'n': 'iShares iBonds Dec 2026 Term Treasury ETF', 'i': 'Fixed Income', 'm': 997480260}, {'s': 'IBTH', 'n': 'iShares iBonds Dec 2027 Term Treasury ETF', 'i': 'Fixed Income', 'm': 774515140}, {'s': 'IBTI', 'n': 'iShares iBonds Dec 2028 Term Treasury ETF', 'i': 'Fixed Income', 'm': 455797300}, {'s': 'IBTJ', 'n': 'iShares iBonds Dec 2029 Term Treasury ETF', 'i': 'Fixed Income', 'm': 224187820}, {'s': 'IBTK', 'n': 'iShares iBonds Dec 2030 Term Treasury ETF', 'i': 'Fixed Income', 'm': 214928140}, {'s': 'IBTL', 'n': 'iShares iBonds Dec 2031 Term Treasury ETF', 'i': 'Fixed Income', 'm': 167618480}, {'s': 'IBTM', 'n': 'iShares iBonds Dec 2032 Term Treasury ETF', 'i': 'Fixed Income', 'm': 189299760}, {'s': 'IBTO', 'n': 'iShares iBonds Dec 2033 Term Treasury ETF', 'i': 'Fixed Income', 'm': 163764930}, {'s': 'IBUY', 'n': 'Amplify Online Retail ETF', 'i': 'Equity', 'm': 177219000}, {'s': 'ICAP', 'n': 'InfraCap Equity Income Fund ETF', 'i': 'Equity', 'm': 51100300}, {'s': 'ICF', 'n': 'iShares Cohen & Steers REIT ETF', 'i': 'Equity', 'm': 1992098800}, {'s': 'ICLN', 'n': 'iShares Global Clean Energy ETF', 'i': 'Equity', 'm': 2373044000}, {'s': 'ICLO', 'n': 'Invesco AAA CLO Floating Rate Note ETF', 'i': 'Fixed Income', 'm': 74361820}, {'s': 'ICOP', 'n': 'iShares Copper and Metals Mining ETF', 'i': 'Equity', 'm': 15332550}, {'s': 'ICOW', 'n': 'Pacer Developed Markets International Cash Cows 100 ETF', 'i': 'Equity', 'm': 1380129200}, {'s': 'ICSH',



'n': 'BlackRock Ultra Short-Term Bond ETF', 'i': 'Fixed Income', 'm': 5599192600}, {'s': 'ICVT', 'n': 'iShares Convertible Bond ETF', 'i': 'Fixed Income', 'm': 1844639500}, {'s': 'IDAT', 'n': 'iShares Future Cloud 5G and Tech ETF', 'i': 'Equity', 'm': 7081464}, {'s': 'IDEC', 'n': 'Innovator International Developed Power Buffer ETF December', 'i': 'Equity', 'm': 13943212}, {'s': 'IDEV', 'n': 'iShares Core MSCI International Developed Markets ETF', 'i': 'Equity', 'm': 13270100000}, {'s': 'IDGT', 'n': 'iShares U.S. Digital Infrastructure and Real Estate ETF', 'i': 'Equity', 'm': 41963204}, {'s': 'IDHQ', 'n': 'Invesco S&P International Developed High Quality ETF', 'i': 'Equity', 'm': 268254000}, {'s': 'IDLV', 'n': 'Invesco S&P International Developed Low Volatility ETF', 'i': 'Equity', 'm': 411510000}, {'s': 'IDMO', 'n': 'Invesco S&P International Developed Momentum ETF', 'i': 'Equity', 'm': 180584800}, {'s': 'IDNA', 'n': 'iShares Genomics Immunology and Healthcare ETF', 'i': 'Equity', 'm': 136186240}, {'s': 'IDOG', 'n': 'ALPS International Sector Dividend Dogs ETF', 'i': 'Equity', 'm': 269376000}, {'s': 'IDRV', 'n': 'iShares Self-driving EV & Tech ETF', 'i': 'Equity', 'm': 254899460}, {'s': 'IDU', 'n': 'iShares U.S. Utilities ETF', 'i': 'Equity', 'm': 869972030}, {'s': 'IDUB', 'n': 'Aptus International Enhanced Yield', 'i': 'Equity', 'm': 154799780}, {'s': 'IDV', 'n': 'iShares International Select Dividend ETF', 'i': 'Equity', 'm': 4097508900}, {'s': 'IDVO', 'n': 'Amplify International Enhanced Dividend Income ETF', 'i': 'Equity', 'm': 104327656}, {'s': 'IDX', 'n': 'VanEck Indonesia Index ETF', 'i': 'Equity', 'm': 28016340}, {'s': 'IEDI', 'n': 'iShares U.S. Consumer Focused ETF', 'i': 'Equity', 'm': 43248140}, {'s': 'IEF', 'n': 'iShares 7-10 Year Treasury Bond ETF', 'i': 'Fixed Income', 'm': 28029690000}, {'s': 'IEFA', 'n': 'iShares Core MSCI EAFE ETF', 'i': 'Equity', 'm': 114157440000}, {'s': 'IEI', 'n': 'iShares 3-7 Year Treasury Bond ETF', 'i': 'Fixed Income', 'm': 12981149000}, {'s': 'IEMG', 'n': 'iShares Core MSCI Emerging Markets ETF', 'i': 'Equity', 'm': 77394895000}, {'s': 'IEO', 'n': 'iShares U.S. Oil & Gas Exploration & Production ETF', 'i': 'Equity', 'm': 905100600}, {'s': 'IETC', 'n': 'iShares U.S. Tech Independence Focused ETF', 'i': 'Equity', 'm': 243969390}, {'s': 'IEUR', 'n': 'iShares Core MSCI Europe ETF', 'i': 'Equity', 'm': 4417110500}, {'s': 'IEUS', 'n': 'iShares MSCI Europe Small-Cap ETF', 'i': 'Equity', 'm': 115127790}, {'s': 'IEV', 'n': 'iShares Europe ETF', 'i': 'Equity', 'm': 1668746500}, {'s': 'IEZ', 'n': 'iShares U.S. Oil Equipment & Services ETF', 'i': 'Equity', 'm': 296247200}, {'s': 'IFEB', 'n': 'Innovator International Developed Power Buffer ETF - February', 'i': 'Equity', 'm': 13479375}, {'s': 'IFGL', 'n': 'iShares International Developed Real Estate ETF', 'i': 'Equity', 'm': 111723300}, {'s': 'IFRA', 'n': 'iShares U.S. Infrastructure ETF', 'i': 'Equity', 'm': 2320227000}, {'s': 'IFV', 'n': 'First Trust Dorsey Wright International Focus 5 ETF', 'i': 'Equity', 'm': 193469300}, {'s': 'IG', 'n': 'Principal Investment Grade Corporate Active ETF', 'i': 'Fixed Income', 'm': 76566220}, {'s': 'IGBH', 'n': 'iShares Interest Rate Hedged Long-Term Corporate Bond ETF', 'i': 'Fixed Income', 'm': 106788150}, {'s': 'IGE', 'n': 'iShares North American Natural Resources ETF', 'i': 'Equity', 'm': 608805760}, {'s': 'IGEB', 'n': 'iShares Investment Grade Systematic Bond ETF', 'i': 'Fixed Income', 'm': 608093060}, {'s': 'IGF', 'n': 'iShares Global Infrastructure ETF', 'i': 'Equity', 'm': 3503422500}, {'s': 'IGHG', 'n': 'ProShares Investment Grade-Interest Rate Hedged', 'i': 'Fixed Income', 'm': 282446240}, {'s': 'IGIB', 'n':

'iShares 5-10 Year Investment Grade Corporate Bond ETF', 'i': 'Fixed Income',  
 'm': 12933621000}, {'s': 'IGLB', 'n': 'iShares 10+ Year Investment Grade  
 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 2220673500}, {'s': 'IGLD', 'n':  
 'FT Vest Gold Strategy Target Income ETF', 'i': 'Commodity', 'm': 93957944},  
 {'s': 'IGM', 'n': 'iShares Expanded Tech Sector ETF', 'i': 'Equity', 'm':  
 4301879000}, {'s': 'IGOV', 'n': 'iShares International Treasury Bond ETF', 'i':  
 'Fixed Income', 'm': 515214340}, {'s': 'IGPT', 'n': 'Invesco AI and Next Gen  
 Software ETF', 'i': 'Equity', 'm': 285305920}, {'s': 'IGRO', 'n': 'iShares  
 International Dividend Growth ETF', 'i': 'Equity', 'm': 645786700}, {'s':  
 'IGSB', 'n': 'iShares 1-5 Year Investment Grade Corporate Bond ETF', 'i': 'Fixed  
 Income', 'm': 20934640000}, {'s': 'IGTR', 'n': 'Innovator Gradient Tactical  
 Rotation Strategy ETF', 'i': 'Equity', 'm': 183726060}, {'s': 'IGV', 'n':  
 'iShares Expanded Tech-Software Sector ETF', 'i': 'Equity', 'm': 6445175300},  
 {'s': 'IHAK', 'n': 'iShares Cybersecurity & Tech ETF', 'i': 'Equity', 'm':  
 835204600}, {'s': 'IHDG', 'n': 'WisdomTree International Hedged Quality Dividend  
 Growth Fund', 'i': 'Equity', 'm': 2378000400}, {'s': 'IHE', 'n': 'iShares U.S.  
 Pharmaceuticals ETF', 'i': 'Equity', 'm': 672616960}, {'s': 'IHF', 'n': 'iShares  
 U.S. Healthcare Providers ETF', 'i': 'Equity', 'm': 793742700}, {'s': 'IHI',  
 'n': 'iShares U.S. Medical Devices ETF', 'i': 'Equity', 'm': 5450962400}, {'s':  
 'IHY', 'n': 'VanEck International High Yield Bond ETF', 'i': 'Fixed Income',  
 'm': 30686850}, {'s': 'IHYF', 'n': 'Invesco High Yield Bond Factor ETF', 'i':  
 'Fixed Income', 'm': 52452844}, {'s': 'IIGD', 'n': 'Invesco Investment Grade  
 Defensive ETF', 'i': 'Fixed Income', 'm': 47632024}, {'s': 'IJAN', 'n':  
 'Innovator International Developed Power Buffer ETF - January', 'i': 'Equity',  
 'm': 204671280}, {'s': 'IJH', 'n': 'iShares Core S&P Mid-Cap ETF', 'i':  
 'Equity', 'm': 82382830000}, {'s': 'IJJ', 'n': 'iShares S&P Mid-Cap 400 Value  
 ETF', 'i': 'Equity', 'm': 7230231600}, {'s': 'IJK', 'n': 'iShares S&P Mid-Cap  
 400 Growth ETF', 'i': 'Equity', 'm': 9387749000}, {'s': 'IJR', 'n': 'iShares  
 Core S&P Small Cap ETF', 'i': 'Equity', 'm': 77364036000}, {'s': 'IJS', 'n':  
 'iShares S&P Small-Cap 600 Value ETF', 'i': 'Equity', 'm': 6736856000}, {'s':  
 'IJT', 'n': 'iShares S&P Small-Cap 600 Growth ETF', 'i': 'Equity', 'm':  
 5722445300}, {'s': 'IJUL', 'n': 'Innovator International Developed Power Buffer  
 ETF - July', 'i': 'Equity', 'm': 152484770}, {'s': 'ILCB', 'n': 'iShares  
 Morningstar U.S. Equity ETF', 'i': 'Equity', 'm': 886127500}, {'s': 'ILCG', 'n':  
 'iShares Morningstar Growth ETF', 'i': 'Equity', 'm': 2113191700}, {'s': 'ILCV',  
 'n': 'iShares Morningstar Value ETF', 'i': 'Equity', 'm': 912734000}, {'s':  
 'ILDR', 'n': 'First Trust Innovation Leaders ETF', 'i': 'Equity', 'm':  
 28984844}, {'s': 'ILF', 'n': 'iShares Latin America 40 ETF', 'i': 'Equity', 'm':  
 1639213400}, {'s': 'ILIT', 'n': 'iShares Lithium Miners and Producers ETF', 'i':  
 'Equity', 'm': 2866380}, {'s': 'ILTB', 'n': 'iShares Core 10+ Year USD Bond  
 ETF', 'i': 'Fixed Income', 'm': 597574300}, {'s': 'IMAR', 'n': 'Innovator  
 International Developed Power Buffer ETF - March', 'i': 'Equity', 'm':  
 12057352}, {'s': 'IMCB', 'n': 'iShares Morningstar Mid-Cap ETF', 'i': 'Equity',  
 'm': 851256900}, {'s': 'IMCG', 'n': 'iShares Morningstar Mid-Cap Growth ETF',  
 'i': 'Equity', 'm': 2001593600}, {'s': 'IMCV', 'n': 'iShares Morningstar Mid-Cap  
 Value ETF', 'i': 'Equity', 'm': 605587800}, {'s': 'IMFL', 'n': 'Invesco  
 International Developed Dynamic Multifactor ETF', 'i': 'Equity', 'm':  
 462312930}, {'s': 'IMOM', 'n': 'Alpha Architect International Quantitative

Momentum ETF', 'i': 'Equity', 'm': 85006160}, {'s': 'IMSI', 'n': 'Invesco  
Municipal Strategic Income ETF', 'i': 'Fixed Income', 'm': 30489050}, {'s':  
'IMTB', 'n': 'iShares Core 5-10 Year USD Bond ETF', 'i': 'Fixed Income', 'm':  
167286400}, {'s': 'IMTM', 'n': 'iShares MSCI Intl Momentum Factor ETF', 'i':  
'Equity', 'm': 2044554500}, {'s': 'INAV', 'n': 'Mohr Industry Nav ETF', 'i':  
'Equity', 'm': 17700672}, {'s': 'INC', 'n': 'VanEck Dynamic High Income ETF',  
'i': 'Asset Allocation', 'm': 795033}, {'s': 'INCM', 'n': 'Franklin Income Focus  
ETF Income Focus ETF', 'i': 'Asset Allocation', 'm': 178080000}, {'s': 'INCO',  
'n': 'Columbia India Consumer ETF', 'i': 'Equity', 'm': 257080000}, {'s':  
'INDA', 'n': 'iShares MSCI India ETF', 'i': 'Equity', 'm': 9552115000}, {'s':  
'INDE', 'n': 'Matthews India Active ETF', 'i': 'Equity', 'm': 6849360}, {'s':  
'INDF', 'n': 'Nifty India Financials ETF', 'i': 'Equity', 'm': 8138399.5}, {'s':  
'INDL', 'n': 'Direxion Daily MSCI India Bull 2X Shares', 'i': 'Equity', 'm':  
88878680}, {'s': 'INDS', 'n': 'Pacer Industrial Real Estate ETF', 'i': 'Equity',  
'm': 210400500}, {'s': 'INDY', 'n': 'iShares India 50 ETF', 'i': 'Equity', 'm':  
878214800}, {'s': 'INFL', 'n': 'Horizon Kinetics Inflation Beneficiaries ETF',  
'i': 'Equity', 'm': 641300200}, {'s': 'INFR', 'n': 'ClearBridge Sustainable  
Infrastructure ETF', 'i': 'Equity', 'm': 7990500}, {'s': 'INKM', 'n': 'SPDR SSgA  
Income Allocation ETF', 'i': 'Asset Allocation', 'm': 71777870}, {'s': 'INMU',  
'n': 'BlackRock Intermediate Muni Income Bond ETF', 'i': 'Fixed Income', 'm':  
18792400}, {'s': 'INNO', 'n': 'Harbor Disruptive Innovation ETF', 'i': 'Equity',  
'm': 33537000}, {'s': 'INOV', 'n': 'Innovator International Developed Power  
Buffer ETF November', 'i': 'Equity', 'm': 3475425}, {'s': 'INQQ', 'n': 'India  
Internet & Ecommerce ETF', 'i': 'Equity', 'm': 36008136}, {'s': 'INRO', 'n':  
'BlackRock U.S. Industry Rotation ETF', 'i': 'Equity', 'm': 5466010}, {'s':  
'INTF', 'n': 'iShares International Equity Factor ETF', 'i': 'Equity', 'm':  
1060502400}, {'s': 'INTL', 'n': 'Main International ETF', 'i': 'Equity', 'm':  
114758100}, {'s': 'IOCT', 'n': 'Innovator International Developed Power Buffer  
ETF - October', 'i': 'Equity', 'm': 112581560}, {'s': 'ION', 'n': 'ProShares S&P  
Global Core Battery Metals ETF', 'i': 'Equity', 'm': 2342506.2}, {'s': 'IOO',  
'n': 'iShares Global 100 ETF', 'i': 'Equity', 'm': 5241141000}, {'s': 'IOPP',  
'n': 'Simplify Tara India Opportunities ETF', 'i': 'Equity', 'm': 3252526},  
{'s': 'IPAC', 'n': 'iShares Core MSCI Pacific ETF', 'i': 'Equity', 'm':  
2057783200}, {'s': 'IPAY', 'n': 'Amplify Mobile Payments ETF', 'i': 'Equity',  
'm': 331768500}, {'s': 'IPDP', 'n': 'Dividend Performers ETF', 'i': 'Equity',  
'm': 20992090}, {'s': 'IPKW', 'n': 'Invesco International BuyBack Achievers  
ETF', 'i': 'Equity', 'm': 89082000}, {'s': 'IPO', 'n': 'Renaissance IPO ETF',  
'i': 'Equity', 'm': 183509620}, {'s': 'IPOS', 'n': 'Renaissance International  
IPO ETF', 'i': 'Equity', 'm': 5723414.5}, {'s': 'IPPP', 'n': 'Preferred-Plus  
ETF', 'i': 'Fixed Income', 'm': 11139212}, {'s': 'IQDE', 'n': 'FlexShares  
International Quality Dividend Defensive Index Fund FlexShares Intl Quality Div  
Defensive Index', 'i': 'Equity', 'm': 23591062}, {'s': 'IQDF', 'n': 'FlexShares  
International Quality Dividend Index Fund FlexShares International Quality  
Dividend Index', 'i': 'Equity', 'm': 559396100}, {'s': 'IQDG', 'n': 'WisdomTree  
International Quality Dividend Growth Fund', 'i': 'Equity', 'm': 949721800},  
{'s': 'IQDY', 'n': 'FlexShares International Quality Dividend Dynamic Index Fund  
FlexShares Int Quality Div Dynamic Index', 'i': 'Equity', 'm': 77656890}, {'s':  
'IQHI', 'n': 'IQ MacKay ESG High Income ETF', 'i': 'Fixed Income', 'm':

83289600}, {'s': 'IQIN', 'n': 'IQ 500 International ETF', 'i': 'Equity', 'm': 195277580}, {'s': 'IQLT', 'n': 'iShares MSCI Intl Quality Factor ETF', 'i': 'Equity', 'm': 8070355000}, {'s': 'IQM', 'n': 'Franklin Intelligent Machines Fund Franklin Intelligent Machines Fund', 'i': 'Equity', 'm': 20349000}, {'s': 'IQQQ', 'n': 'ProShares Nasdaq-100 High Income ETF', 'i': 'Equity', 'm': 14677601}, {'s': 'IQRA', 'n': 'IQ CBRE Real Assets ETF', 'i': 'Equity', 'm': 4869000}, {'s': 'IQSI', 'n': 'IQ Candriam International Equity ETF', 'i': 'Equity', 'm': 185538240}, {'s': 'IQSM', 'n': 'IQ Candriam U.S. Mid Cap Equity ETF', 'i': 'Equity', 'm': 207065170}, {'s': 'IQSU', 'n': 'IQ Candriam U.S. Large Cap Equity ETF', 'i': 'Equity', 'm': 380740700}, {'s': 'IRBA', 'n': 'iMGP RBA Responsible Global Allocation ETF', 'i': 'Asset Allocation', 'm': 1449000}, {'s': 'IRBO', 'n': 'iShares Robotics and Artificial Intelligence Multisector ETF', 'i': 'Equity', 'm': 667307500}, {'s': 'IRET', 'n': 'iREIT - MarketVector Quality REIT Index ETF', 'i': 'Equity', 'm': 1479000}, {'s': 'IRTR', 'n': 'iShares LifePath Retirement ETF', 'i': 'Asset Allocation', 'm': 3257888.5}, {'s': 'IRVH', 'n': 'Global X Interest Rate Volatility & Inflation Hedge ETF', 'i': 'Fixed Income', 'm': 3447356.2}, {'s': 'ISCB', 'n': 'iShares Morningstar Small-Cap ETF', 'i': 'Equity', 'm': 218872300}, {'s': 'ISCF', 'n': 'iShares International SmallCap Equity Factor ETF', 'i': 'Equity', 'm': 561740160}, {'s': 'ISCG', 'n': 'iShares Morningstar Small-Cap Growth ETF', 'i': 'Equity', 'm': 550727040}, {'s': 'ISCV', 'n': 'iShares Morningstar Small Cap Value ETF', 'i': 'Equity', 'm': 409380540}, {'s': 'ISDB', 'n': 'Invesco Short Duration Bond ETF', 'i': 'Fixed Income', 'm': 9889625}, {'s': 'ISEP', 'n': 'Innovator International Developed Power Buffer ETF - September', 'i': 'Equity', 'm': 49689520}, {'s': 'ISHG', 'n': 'iShares 1-3 Year International Treasury Bond ETF', 'i': 'Fixed Income', 'm': 79736510}, {'s': 'ISHP', 'n': 'First Trust Nasdaq Retail ETF', 'i': 'Equity', 'm': 4422059}, {'s': 'ISMD', 'n': 'Inspire Small/Mid Cap ETF', 'i': 'Equity', 'm': 172400000}, {'s': 'ISPY', 'n': 'ProShares S&P 500 High Income ETF', 'i': 'Equity', 'm': 77570760}, {'s': 'ISRA', 'n': 'VanEck Israel ETF', 'i': 'Equity', 'm': 63347796}, {'s': 'ISTB', 'n': 'iShares Core 1-5 Year USD Bond ETF', 'i': 'Fixed Income', 'm': 4049109800}, {'s': 'ISVL', 'n': 'iShares International Developed Small Cap Value Factor ETF', 'i': 'Equity', 'm': 182789360}, {'s': 'ISWN', 'n': 'Amplify BlackSwan ISWN ETF', 'i': 'Asset Allocation', 'm': 37612400}, {'s': 'ISZE', 'n': 'iShares MSCI Intl Size Factor ETF', 'i': 'Equity', 'm': 5270940}, {'s': 'ITA', 'n': 'iShares U.S. Aerospace & Defense ETF', 'i': 'Equity', 'm': 5998905300}, {'s': 'ITAN', 'n': 'Sparkline Intangible Value ETF', 'i': 'Equity', 'm': 34882800}, {'s': 'ITB', 'n': 'iShares U.S. Home Construction ETF', 'i': 'Equity', 'm': 3041612000}, {'s': 'ITDA', 'n': 'iShares LifePath Target Date 2025 ETF USD', 'i': 'Asset Allocation', 'm': 2740435.8}, {'s': 'ITDB', 'n': 'iShares LifePath Target Date 2030 ETF', 'i': 'Asset Allocation', 'm': 7800908}, {'s': 'ITDC', 'n': 'iShares LifePath Target Date 2035 ETF USD', 'i': 'Asset Allocation', 'm': 9010179}, {'s': 'ITDD', 'n': 'iShares LifePath Target Date 2040 ETF', 'i': 'Asset Allocation', 'm': 6262750}, {'s': 'ITDE', 'n': 'iShares LifePath Target Date 2045 ETF USD', 'i': 'Asset Allocation', 'm': 6909572}, {'s': 'ITDF', 'n': 'iShares LifePath Target Date 2050 ETF USD', 'i': 'Asset Allocation', 'm': 7552404.5}, {'s': 'ITDG', 'n': 'iShares LifePath Target Date 2055 ETF', 'i': 'Asset Allocation', 'm': 4657496.5}, {'s': 'ITDH', 'n': 'iShares LifePath Target Date 2060 ETF USD', 'i':

'Asset Allocation', 'm': 2911068.8}, {'s': 'ITDI', 'n': 'iShares LifePath Target Date 2065 ETF', 'i': 'Asset Allocation', 'm': 3493279.8}, {'s': 'ITEQ', 'n': 'Amplify BlueStar Israel Technology ETF', 'i': 'Equity', 'm': 85377500}, {'s': 'ITM', 'n': 'VanEck Intermediate Muni ETF', 'i': 'Fixed Income', 'm': 1814531800}, {'s': 'ITOT', 'n': 'iShares Core S&P Total U.S. Stock Market ETF', 'i': 'Equity', 'm': 52733620000}, {'s': 'IUS', 'n': 'Invesco RAFI Strategic US ETF', 'i': 'Equity', 'm': 500678900}, {'s': 'IUSB', 'n': 'iShares Core Total USD Bond Market ETF', 'i': 'Fixed Income', 'm': 27578728000}, {'s': 'IUSG', 'n': 'iShares Core S&P U.S. Growth ETF', 'i': 'Equity', 'm': 17107896000}, {'s': 'IUSV', 'n': 'iShares Core S&P US Value ETF', 'i': 'Equity', 'm': 16793916000}, {'s': 'IVAL', 'n': 'Alpha Architect International Quantitative Value ETF', 'i': 'Equity', 'm': 155452500}, {'s': 'IVE', 'n': 'iShares S&P 500 Value ETF', 'i': 'Equity', 'm': 32522318000}, {'s': 'IVEG', 'n': 'iShares Emergent Food and AgTech Multisector ETF', 'i': 'Equity', 'm': 4974050}, {'s': 'IVES', 'n': 'Amplify Global Cloud Technology ETF', 'i': 'Equity', 'm': 29838316}, {'s': 'IVLU', 'n': 'iShares MSCI Intl Value Factor ETF', 'i': 'Equity', 'm': 1740917600}, {'s': 'IVOG', 'n': 'Vanguard S&P Mid-Cap 400 Growth ETF', 'i': 'Equity', 'm': 997473600}, {'s': 'IVOL', 'n': 'Quadratic Interest Rate Volatility & Inflation Hedge ETF', 'i': 'Fixed Income', 'm': 656117700}, {'s': 'IV00', 'n': 'Vanguard S&P Mid-Cap 400 ETF', 'i': 'Equity', 'm': 1969409200}, {'s': 'IVOV', 'n': 'Vanguard S&P Mid-Cap 400 Value ETF', 'i': 'Equity', 'm': 855682370}, {'s': 'IVRA', 'n': 'Invesco Real Assets ESG ETF', 'i': 'Equity', 'm': 4653253.5}, {'s': 'IVRS', 'n': 'iShares Future Metaverse Tech and Communications ETF', 'i': 'Equity', 'm': 6503800}, {'s': 'IVV', 'n': 'iShares Core S&P 500 ETF', 'i': 'Equity', 'm': 440280200000}, {'s': 'IVVB', 'n': 'iShares Large Cap Deep Buffer ETF', 'i': 'Equity', 'm': 52656310}, {'s': 'IVVM', 'n': 'iShares Large Cap Moderate Buffer ETF', 'i': 'Equity', 'm': 37690936}, {'s': 'IVVW', 'n': 'iShares S&P 500 BuyWrite ETF', 'i': 'Equity', 'm': 16967598}, {'s': 'IVW', 'n': 'iShares S&P 500 Growth ETF', 'i': 'Equity', 'm': 44480446000}, {'s': 'IWB', 'n': 'iShares Russell 1000 ETF', 'i': 'Equity', 'm': 35093510000}, {'s': 'IWC', 'n': 'iShares Micro-Cap ETF', 'i': 'Equity', 'm': 885683500}, {'s': 'IWD', 'n': 'iShares Russell 1000 Value ETF', 'i': 'Equity', 'm': 54546293000}, {'s': 'IWF', 'n': 'iShares Russell 1000 Growth ETF', 'i': 'Equity', 'm': 89096150000}, {'s': 'IWFG', 'n': 'IQ Winslow Focused Large Cap Growth ETF', 'i': 'Equity', 'm': 9257380}, {'s': 'IWFH', 'n': 'iShares Virtual Work and Life Multisector ETF', 'i': 'Equity', 'm': 3071440}, {'s': 'IWIN', 'n': 'Amplify Inflation Fighter ETF', 'i': 'Asset Allocation', 'm': 7761655}, {'s': 'IWL', 'n': 'iShares Russell Top 200 ETF', 'i': 'Equity', 'm': 1319993600}, {'s': 'IWLG', 'n': 'IQ Winslow Large Cap Growth ETF', 'i': 'Equity', 'm': 28795080}, {'s': 'IWM', 'n': 'iShares Russell 2000 ETF', 'i': 'Equity', 'm': 60861550000}, {'s': 'IWMW', 'n': 'iShares Russell 2000 BuyWrite ETF', 'i': 'Equity', 'm': 15710976}, {'s': 'IWMY', 'n': 'Defiance R2000 Enhanced Options Income ETF', 'i': 'Equity', 'm': 157585400}, {'s': 'IWN', 'n': 'iShares Russell 2000 Value ETF', 'i': 'Equity', 'm': 11872097000}, {'s': 'IWO', 'n': 'iShares Russell 2000 Growth ETF', 'i': 'Equity', 'm': 11205408000}, {'s': 'IWP', 'n': 'iShares Russell Mid-Cap Growth ETF', 'i': 'Equity', 'm': 15244369000}, {'s': 'IWR', 'n': 'iShares Russell Midcap ETF', 'i': 'Equity', 'm': 33281470000}, {'s': 'IWS', 'n':

'iShares Russell Mid-Cap Value ETF', 'i': 'Equity', 'm': 13423892000}, {'s':  
 'IWTR', 'n': 'iShares MSCI Water Management Multisector ETF', 'i': 'Equity',  
 'm': 6075460}, {'s': 'IWV', 'n': 'iShares Russell 3000 ETF', 'i': 'Equity', 'm':  
 13469018000}, {'s': 'IWX', 'n': 'iShares Russell Top 200 Value ETF', 'i':  
 'Equity', 'm': 2093278700}, {'s': 'IWY', 'n': 'iShares Russell Top 200 Growth  
 ETF', 'i': 'Equity', 'm': 9580167000}, {'s': 'IXC', 'n': 'iShares Global Energy  
 ETF', 'i': 'Equity', 'm': 3491060200}, {'s': 'IXG', 'n': 'iShares Global  
 Financials ETF', 'i': 'Equity', 'm': 391543000}, {'s': 'IXJ', 'n': 'iShares  
 Global Healthcare ETF', 'i': 'Equity', 'm': 3874187800}, {'s': 'IXN', 'n':  
 'iShares Global Tech ETF', 'i': 'Equity', 'm': 4554304500}, {'s': 'IXP', 'n':  
 'iShares Global Comm Services ETF', 'i': 'Equity', 'm': 277954620}, {'s':  
 'IXUS', 'n': 'iShares Core MSCI Total International Stock ETF', 'i': 'Equity',  
 'm': 36097060000}, {'s': 'IYC', 'n': 'iShares U.S. Consumer Discretionary ETF',  
 'i': 'Equity', 'm': 1009701100}, {'s': 'IYE', 'n': 'iShares U.S. Energy ETF',  
 'i': 'Equity', 'm': 1403008300}, {'s': 'IYF', 'n': 'iShares U.S. Financials  
 ETF', 'i': 'Equity', 'm': 2523066400}, {'s': 'IYG', 'n': 'iShares US Financial  
 Services ETF', 'i': 'Equity', 'm': 1301913700}, {'s': 'IYH', 'n': 'iShares U.S.  
 Healthcare ETF', 'i': 'Equity', 'm': 3353698000}, {'s': 'IYJ', 'n': 'iShares  
 U.S. Industrials ETF', 'i': 'Equity', 'm': 1601267700}, {'s': 'IYK', 'n':  
 'iShares U.S. Consumer Staples ETF', 'i': 'Equity', 'm': 1277682800}, {'s':  
 'IYLD', 'n': 'iShares Morningstar Multi-Asset Income ETF', 'i': 'Asset  
 Allocation', 'm': 117924230}, {'s': 'IYM', 'n': 'iShares U.S. Basic Materials  
 ETF', 'i': 'Equity', 'm': 673361800}, {'s': 'IYR', 'n': 'iShares U.S. Real  
 Estate ETF', 'i': 'Equity', 'm': 3906051300}, {'s': 'IYT', 'n': 'iShares US  
 Transportation ETF', 'i': 'Equity', 'm': 881798460}, {'s': 'IYW', 'n': 'iShares  
 U.S. Technology ETF', 'i': 'Equity', 'm': 16619197000}, {'s': 'IYY', 'n':  
 'iShares Dow Jones U.S. ETF', 'i': 'Equity', 'm': 1886717700}, {'s': 'IYZ', 'n':  
 'iShares U.S. Telecommunications ETF', 'i': 'Equity', 'm': 230151340}, {'s':  
 'IZRL', 'n': 'ARK Israel Innovative Technology ETF', 'i': 'Equity', 'm':  
 104931750}, {'s': 'JAAA', 'n': 'Janus Detroit Street Trust Janus Henderson AAA  
 CLO ETF', 'i': 'Fixed Income', 'm': 7847887400}, {'s': 'JAND', 'n': 'Innovator  
 Premium Income 10 Barrier ETF - January', 'i': 'Equity', 'm': 4975180}, {'s':  
 'JANH', 'n': 'Innovator Premium Income 20 Barrier ETF - January', 'i': 'Equity',  
 'm': 9289950}, {'s': 'JANJ', 'n': 'Innovator Premium Income 30 Barrier ETF -  
 January', 'i': 'Equity', 'm': 24674700}, {'s': 'JANP', 'n': 'PGIM US Large-Cap  
 Buffer 12 ETF - January', 'i': 'Equity', 'm': 3160800}, {'s': 'JANQ', 'n':  
 'Innovator Premium Income 40 Barrier ETF - January', 'i': 'Equity', 'm':  
 14141205}, {'s': 'JANT', 'n': 'AllianzIM U.S. Large Cap Buffer10 Jan ETF', 'i':  
 'Equity', 'm': 119811620}, {'s': 'JANW', 'n': 'AllianzIM U.S. Large Cap Buffer20  
 Jan ETF', 'i': 'Equity', 'm': 407104900}, {'s': 'JANZ', 'n': 'TrueShares  
 Structured Outcome (January) ETF', 'i': 'Equity', 'm': 7013688}, {'s': 'JAVA',  
 'n': 'JPMorgan Active Value ETF', 'i': 'Equity', 'm': 1050300000}, {'s': 'JBBB',  
 'n': 'Janus Henderson B-BBB CLO ETF', 'i': 'Fixed Income', 'm': 403961000},  
 {'s': 'JBND', 'n': 'JPMorgan Active Bond ETF', 'i': 'Fixed Income', 'm':  
 199797000}, {'s': 'JCHI', 'n': 'JPMorgan Active China ETF Active China ETF',  
 'i': 'Equity', 'm': 10301200}, {'s': 'JCPB', 'n': 'JPMorgan Core Plus Bond ETF  
 JPMorgan Core Plus Bond Fund', 'i': 'Fixed Income', 'm': 2873072000}, {'s':  
 'JCPI', 'n': 'JPMorgan Inflation Managed Bond ETF JPMorgan Inflation Managed

Bond ETF', 'i': 'Fixed Income', 'm': 655016640}, {'s': 'JCTR', 'n': 'JPMorgan Carbon Transition U.S. Equity Fund JPMorgan Carbon Transition U.S. Equity Fund', 'i': 'Equity', 'm': 5257500}, {'s': 'JDOC', 'n': 'JPMorgan Healthcare Leaders ETF Healthcare Leaders ETF', 'i': 'Equity', 'm': 8466000}, {'s': 'JDST', 'n': 'Direxion Daily Junior Gold Miners Index Bear 2X Shares', 'i': 'Equity', 'm': 87292300}, {'s': 'JDVI', 'n': 'John Hancock Disciplined Value International Select ETF', 'i': 'Equity', 'm': 26486300}, {'s': 'JEMA', 'n': 'JPMorgan ActiveBuilders Emerging Markets Equity ETF', 'i': 'Equity', 'm': 1030546000}, {'s': 'JEPI', 'n': 'JPMorgan Equity Premium Income Fund JPMorgan Equity Premium Income Fund', 'i': 'Equity', 'm': 33179058000}, {'s': 'JEPQ', 'n': 'JPMorgan NASDAQ Equity Premium Income ETF', 'i': 'Equity', 'm': 12130605000}, {'s': 'JEPY', 'n': 'Defiance S&P 500 Enhanced Options Income ETF', 'i': 'Equity', 'm': 135806270}, {'s': 'JETS', 'n': 'U.S. Global Jets ETF', 'i': 'Equity', 'm': 1238302000}, {'s': 'JFWD', 'n': 'Jacob Forward ETF', 'i': 'Equity', 'm': 3159630}, {'s': 'JGLO', 'n': 'JPMorgan Global Select Equity ETF Global Select Equity ETF', 'i': 'Equity', 'm': 2788342300}, {'s': 'JGRO', 'n': 'JPMorgan Active Growth ETF', 'i': 'Equity', 'm': 1369618700}, {'s': 'JHAC', 'n': 'John Hancock Fundamental All Cap Core ETF', 'i': 'Equity', 'm': 3128478.5}, {'s': 'JHCB', 'n': 'John Hancock Corporate Bond ETF', 'i': 'Fixed Income', 'm': 45655940}, {'s': 'JHDV', 'n': 'John Hancock U.S. High Dividend ETF', 'i': 'Equity', 'm': 8054750}, {'s': 'JHEM', 'n': 'John Hancock Multifactor Emerging Markets ETF', 'i': 'Equity', 'm': 694874400}, {'s': 'JHID', 'n': 'John Hancock International High Dividend ETF', 'i': 'Equity', 'm': 7937514}, {'s': 'JHMB', 'n': 'John Hancock Mortgage-Backed Securities ETF', 'i': 'Fixed Income', 'm': 40605564}, {'s': 'JHMD', 'n': 'John Hancock Multifactor Developed International ETF', 'i': 'Equity', 'm': 708187200}, {'s': 'JHML', 'n': 'John Hancock Multifactor Large Cap ETF', 'i': 'Equity', 'm': 858942900}, {'s': 'JHMM', 'n': 'John Hancock Multifactor Mid Cap ETF', 'i': 'Equity', 'm': 3717654800}, {'s': 'JHMU', 'n': 'John Hancock Dynamic Municipal Bond ETF', 'i': 'Fixed Income', 'm': 22772944}, {'s': 'JHPI', 'n': 'John Hancock Preferred Income ETF', 'i': 'Fixed Income', 'm': 37464430}, {'s': 'JHSC', 'n': 'John Hancock Multifactor Small Cap ETF', 'i': 'Equity', 'm': 418805380}, {'s': 'JIG', 'n': 'JPMorgan International Growth Fund JPMorgan International Growth Fund', 'i': 'Equity', 'm': 88620750}, {'s': 'JIRE', 'n': 'JPMorgan International Research Enhanced Equity ETF JPMorgan International Research Enhanced Equity ETF', 'i': 'Equity', 'm': 5981299000}, {'s': 'JIVE', 'n': 'JPMorgan International Value ETF', 'i': 'Equity', 'm': 13675000}, {'s': 'JMBS', 'n': 'Janus Henderson Mortgage-Backed Securities ETF', 'i': 'Fixed Income', 'm': 3873077500}, {'s': 'JMEE', 'n': 'JPMorgan Market Expansion Enhanced Equity ETF Market Expansion Enhanced Equity ETF', 'i': 'Equity', 'm': 1022064000}, {'s': 'JMHI', 'n': 'JPMorgan High Yield Municipal ETF High Yield Municipal ETF', 'i': 'Fixed Income', 'm': 173057800}, {'s': 'JMOM', 'n': 'JPMorgan U.S. Momentum Factor ETF US Momentum Factor Fund', 'i': 'Equity', 'm': 857432500}, {'s': 'JMSI', 'n': 'JPMorgan Sustainable Municipal Income ETF Sustainable Municipal Income ETF', 'i': 'Fixed Income', 'm': 210086740}, {'s': 'JMST', 'n': 'JPMorgan Ultra-Short Municipal Income ETF', 'i': 'Fixed Income', 'm': 2622634000}, {'s': 'JMUB', 'n': 'JPMorgan Municipal ETF', 'i': 'Fixed Income', 'm': 1307800000}, {'s': 'JNK', 'n': 'SPDR Bloomberg High Yield Bond ETF', 'i': 'Fixed Income', 'm': 7939011600}, {'s': 'JNUG', 'n':

'Direxion Daily Junior Gold Miners Index Bull 2X Shares', 'i': 'Equity', 'm': 320967330}, {'s': 'JOET', 'n': 'Virtus Terranova US Quality Momentum ETF', 'i': 'Equity', 'm': 108080136}, {'s': 'JOJO', 'n': 'ATAC Credit Rotation ETF', 'i': 'Fixed Income', 'm': 3115462.5}, {'s': 'JPAN', 'n': 'Matthews Japan Active ETF', 'i': 'Equity', 'm': 2379200}, {'s': 'JPEF', 'n': 'JPMorgan Equity Focus ETF JPMorgan Equity Focus ETF', 'i': 'Equity', 'm': 562987140}, {'s': 'JPEM', 'n': 'JPMorgan Diversified Return Emerging Markets Equity ETF JPMorgan Diversified Return Emerging Markets Equity', 'i': 'Equity', 'm': 316622000}, {'s': 'JPIB', 'n': 'JPMorgan International Bond Opportunities ETF', 'i': 'Fixed Income', 'm': 416164000}, {'s': 'JPIE', 'n': 'JPMorgan Income ETF', 'i': 'Fixed Income', 'm': 1244587500}, {'s': 'JPIN', 'n': 'PMXF Diversified Return Intl Ex-North America Equity', 'i': 'Equity', 'm': 373592000}, {'s': 'JPLD', 'n': 'JPMorgan Limited Duration Bond ETF JPMorgan Limited Duration Bond ETF', 'i': 'Fixed Income', 'm': 715961100}, {'s': 'JPMB', 'n': 'JPMorgan USD Emerging Markets Sovereign Bond ETF USD Emerging Markets Sovereign Bond Fund', 'i': 'Fixed Income', 'm': 657153000}, {'s': 'JPME', 'n': 'JPMorgan Diversified Return U.S. Mid Cap Equity ETF Diversified Return U.S. Mid Cap Equity', 'i': 'Equity', 'm': 369330500}, {'s': 'JPMO', 'n': 'YieldMax JPM Option Income Strategy ETF', 'i': 'Equity', 'm': 13630305}, {'s': 'JPRE', 'n': 'JPMorgan Realty Income ETF JPMorgan Realty Income ETF', 'i': 'Equity', 'm': 322446940}, {'s': 'JPSE', 'n': 'JPMorgan Diversified Return U.S. Small Cap Equity ETF Diversified Return US Small Cap Equity', 'i': 'Equity', 'm': 473277000}, {'s': 'JPST', 'n': 'JPMorgan Ultra-Short Income ETF Ultra Short Income Fund', 'i': 'Fixed Income', 'm': 22703933000}, {'s': 'JPSV', 'n': 'JPMorgan Active Small Cap Value ETF JPMorgan Active Small Cap Value ETF', 'i': 'Equity', 'm': 15947700}, {'s': 'JPUS', 'n': 'JPMorgan Diversified Return Use Equity JPMorgan Diversified Return Use Equity', 'i': 'Equity', 'm': 434720000}, {'s': 'JPXN', 'n': 'iShares JPX-Nikkei 400 ETF', 'i': 'Equity', 'm': 88555800}, {'s': 'JQUA', 'n': 'JPMorgan U.S. Quality Factor ETF US Quality Factor Fund', 'i': 'Equity', 'm': 4066764000}, {'s': 'JRE', 'n': 'Janus Henderson U.S. Real Estate ETF', 'i': 'Equity', 'm': 3231021.5}, {'s': 'JRNY', 'n': 'ALPS Global Travel Beneficiaries ETF', 'i': 'Equity', 'm': 6317300.5}, {'s': 'JSCP', 'n': 'JPMorgan Short Duration Core Plus ETF', 'i': 'Fixed Income', 'm': 408969000}, {'s': 'JSI', 'n': 'Janus Henderson Securitized Income ETF', 'i': 'Fixed Income', 'm': 234554000}, {'s': 'JSMD', 'n': 'Janus Henderson Small/Mid Cap Growth Alpha ETF', 'i': 'Equity', 'm': 346841540}, {'s': 'JSML', 'n': 'Janus Henderson Small Cap Growth Alpha ETF', 'i': 'Equity', 'm': 210291820}, {'s': 'JSTC', 'n': 'Adasina Social Justice All Cap Global ETF', 'i': 'Equity', 'm': 170672030}, {'s': 'JTEK', 'n': 'JPMorgan U.S. Tech Leaders ETF JPMorgan U.S. Tech Leaders ETF', 'i': 'Equity', 'm': 362752000}, {'s': 'JUCY', 'n': 'Aptus Enhanced Yield ETF', 'i': 'Fixed Income', 'm': 332638820}, {'s': 'JULD', 'n': 'Innovator Premium Income 10 Barrier ETF - July', 'i': 'Equity', 'm': 4377677.5}, {'s': 'JULH', 'n': 'Innovator Premium Income 20 Barrier ETF - July', 'i': 'Equity', 'm': 23712096}, {'s': 'JULJ', 'n': 'Innovator Premium Income 30 Barrier ETF - July', 'i': 'Equity', 'm': 25560118}, {'s': 'JULQ', 'n': 'Innovator Premium Income 40 Barrier ETF - July', 'i': 'Equity', 'm': 8710835}, {'s': 'JULT', 'n': 'AllianzIM U.S. Large Cap Buffer10 Jul ETF', 'i': 'Equity', 'm': 32191110}, {'s': 'JULW', 'n': 'AllianzIM U.S. Large Cap Buffer20 Jul ETF', 'i': 'Equity', 'm': 146789100}, {'s': 'JULZ', 'n': 'TrueShares Structured



Outcome (July) ETF', 'i': 'Equity', 'm': 20585306}, {'s': 'JUNT', 'n':  
 'AllianzIM U.S. Large Cap Buffer10 Jun ETF', 'i': 'Equity', 'm': 9527570}, {'s':  
 'JUNW', 'n': 'AllianzIM U.S. Large Cap Buffer20 Jun ETF', 'i': 'Equity', 'm':  
 22995556}, {'s': 'JUNZ', 'n': 'TrueShares Structured Outcome (June) ETF', 'i':  
 'Equity', 'm': 2948914.5}, {'s': 'JUST', 'n': 'Goldman Sachs JUST U.S. Large Cap  
 Equity ETF', 'i': 'Equity', 'm': 339007500}, {'s': 'JVAL', 'n': 'JPMorgan U.S.  
 Value Factor ETF US Value Factor Fund', 'i': 'Equity', 'm': 823571000}, {'s':  
 'JXI', 'n': 'iShares Global Utilities ETF', 'i': 'Equity', 'm': 121565430},  
 {'s': 'KALL', 'n': 'KraneShares MSCI All China Index ETF', 'i': 'Equity', 'm':  
 6427865}, {'s': 'KAPR', 'n': 'Innovator U.S. Small Cap Power Buffer ETF -  
 April', 'i': 'Equity', 'm': 158171520}, {'s': 'KARB', 'n': 'Carbon Strategy  
 ETF', 'i': 'Commodity', 'm': 871089}, {'s': 'KARS', 'n': 'KraneShares Electric  
 Vehicles & Future Mobility Index ETF', 'i': 'Equity', 'm': 102908680}, {'s':  
 'KBA', 'n': 'KraneShares Boseria MSCI China A 50 Connect Index ETF', 'i':  
 'Equity', 'm': 189614660}, {'s': 'KBE', 'n': 'SPDR S&P Bank ETF', 'i': 'Equity',  
 'm': 1344213200}, {'s': 'KBUF', 'n': 'KraneShares 90% KWEB Defined Outcome  
 January 2026 ETF', 'i': 'Equity', 'm': 2601296}, {'s': 'KBWB', 'n': 'Invesco KBW  
 Bank ETF', 'i': 'Equity', 'm': 1440269700}, {'s': 'KBWD', 'n': 'Invesco KBW High  
 Dividend Yield Financial ETF', 'i': 'Equity', 'm': 368028800}, {'s': 'KBWP',  
 'n': 'Invesco KBW Property & Casualty Insurance ETF', 'i': 'Equity', 'm':  
 306564000}, {'s': 'KBWR', 'n': 'Invesco KBW Regional Banking ETF', 'i':  
 'Equity', 'm': 51597000}, {'s': 'KBWY', 'n': 'Invesco KBW Premium Yield Equity  
 REIT ETF', 'i': 'Equity', 'm': 192160140}, {'s': 'KCCA', 'n': 'KraneShares  
 California Carbon Allowance Strategy ETF', 'i': 'Commodity', 'm': 263245060},  
 {'s': 'KCE', 'n': 'SPDR S&P Capital Markets ETF', 'i': 'Equity', 'm':  
 221872110}, {'s': 'KDIV', 'n': 'KraneShares S&P Pan Asia Dividend Aristocrats  
 Index ETF', 'i': 'Equity', 'm': 2683203}, {'s': 'KDRN', 'n': 'Kingsbarn Tactical  
 Bond ETF', 'i': 'Fixed Income', 'm': 1140000}, {'s': 'KEAT', 'n': 'Keating  
 Active ETF', 'i': 'Equity', 'm': 67499016}, {'s': 'KEM', 'n': 'KraneShares  
 Dynamic Emerging Markets Strategy ETF', 'i': 'Equity', 'm': 3768491.2}, {'s':  
 'KEMQ', 'n': 'KraneShares Emerging Markets Consumer Technology Index ETF', 'i':  
 'Equity', 'm': 18660602}, {'s': 'KEMX', 'n': 'KraneShares MSCI Emerging Markets  
 EX China Index ETF', 'i': 'Equity', 'm': 79055780}, {'s': 'KEUA', 'n':  
 'KraneShares European Carbon Allowance Strategy ETF', 'i': 'Commodity', 'm':  
 12648749}, {'s': 'KFVG', 'n': 'KraneShares CICC China 5G & Semiconductor Index  
 ETF', 'i': 'Equity', 'm': 9232795}, {'s': 'KGRN', 'n': 'KraneShares MSCI China  
 Clean Technology Index ETF', 'i': 'Equity', 'm': 57831064}, {'s': 'KHYB', 'n':  
 'KraneShares Asia Pacific High Income Bond ETF', 'i': 'Fixed Income', 'm':  
 14779609}, {'s': 'KIE', 'n': 'SPDR S&P Insurance ETF', 'i': 'Equity', 'm':  
 724908100}, {'s': 'KJAN', 'n': 'Innovator U.S. Small Cap Power Buffer ETF -  
 January', 'i': 'Equity', 'm': 415257600}, {'s': 'KJUL', 'n': 'Innovator U.S.  
 Small Cap Power Buffer ETF - July', 'i': 'Equity', 'm': 140997970}, {'s':  
 'KLDW', 'n': 'Knowledge Leaders Developed World ETF', 'i': 'Equity', 'm':  
 134458240}, {'s': 'KLIP', 'n': 'KraneShares China Internet and Covered Call  
 Strategy ETF', 'i': 'Equity', 'm': 171588850}, {'s': 'KLNE', 'n': 'Direxion  
 Daily Global Clean Energy Bull 2X Shares ETF', 'i': 'Equity', 'm': 3682806.8},  
 {'s': 'KLXY', 'n': 'KraneShares Global Luxury Index ETF', 'i': 'Equity', 'm':  
 2553883.8}, {'s': 'KMET', 'n': 'KraneShares Electrification Metals Strategy

ETF', 'i': 'Commodity', 'm': 2775910.2}, {'s': 'KMLM', 'n': 'KFA Mount Lucas Managed Futures Index Strategy ETF', 'i': 'Alternatives', 'm': 277270900}, {'s': 'KNCT', 'n': 'Invesco Next Gen Connectivity ETF', 'i': 'Equity', 'm': 40253160}, {'s': 'KNG', 'n': 'FT Vest S&P 500 Dividend Aristocrats Target Income ETF', 'i': 'Equity', 'm': 2579189000}, {'s': 'KNGS', 'n': 'Roundhill S&P Dividend Monarchs ETF', 'i': 'Equity', 'm': 3041192}, {'s': 'KNGZ', 'n': 'First Trust S&P 500 Diversified Dividend Aristocrats ETF', 'i': 'Equity', 'm': 29213512}, {'s': 'KNOW', 'n': 'Fundamentals First ETF', 'i': 'Asset Allocation', 'm': 2578550}, {'s': 'KOCG', 'n': 'FIS Knights of Columbus Global Belief ETF', 'i': 'Equity', 'm': 23329728}, {'s': 'KOCT', 'n': 'Innovator U.S. Small Cap Power Buffer ETF - October', 'i': 'Equity', 'm': 86260510}, {'s': 'KOIN', 'n': 'Capital Link Global Fintech Leaders ETF', 'i': 'Equity', 'm': 12946098}, {'s': 'KOKU', 'n': 'Xtrackers MSCI Kokusai Equity ETF', 'i': 'Equity', 'm': 559098500}, {'s': 'KOLD', 'n': 'ProShares UltraShort Bloomberg Natural Gas', 'i': 'Commodity', 'm': 125690480}, {'s': 'KOMP', 'n': 'SPDR S&P Kensho New Economies Composite ETF', 'i': 'Equity', 'm': 1907420500}, {'s': 'KONG', 'n': 'Formidable Fortress ETF', 'i': 'Equity', 'm': 26403000}, {'s': 'KOOL', 'n': 'North Shore Equity Rotation ETF', 'i': 'Equity', 'm': 18869336}, {'s': 'KORP', 'n': 'American Century Diversified Corporate Bond ETF', 'i': 'Fixed Income', 'm': 246677900}, {'s': 'KORU', 'n': 'Direxion MSCI Daily South Korea Bull 3X Shares', 'i': 'Equity', 'm': 38796410}, {'s': 'KPOP', 'n': 'JAKOTA K-Pop and Korean Entertainment ETF', 'i': 'Equity', 'm': 2706865.5}, {'s': 'KPRO', 'n': 'KraneShares 100% KWEB Defined Outcome January 2026 ETF', 'i': 'Equity', 'm': 2536443.2}, {'s': 'KRBN', 'n': 'KraneShares Global Carbon Strategy ETF', 'i': 'Commodity', 'm': 318655170}, {'s': 'KRE', 'n': 'SPDR S&P Regional Banking ETF', 'i': 'Equity', 'm': 2495714600}, {'s': 'KRMA', 'n': 'Global X Conscious Companies ETF', 'i': 'Equity', 'm': 626012200}, {'s': 'KROP', 'n': 'Global X AgTech & Food Innovation ETF', 'i': 'Equity', 'm': 4293408.5}, {'s': 'KRUZ', 'n': 'Unusual Whales Subversive Republican Trading ETF', 'i': 'Equity', 'm': 16273620}, {'s': 'KSA', 'n': 'iShares MSCI Saudi Arabia ETF', 'i': 'Equity', 'm': 836869900}, {'s': 'KSEA', 'n': 'KraneShares Rockefeller Ocean Engagement ETF', 'i': 'Equity', 'm': 2625073.8}, {'s': 'KSTR', 'n': 'KraneShares SSE STAR Market 50 Index ETF', 'i': 'Equity', 'm': 23836788}, {'s': 'KTEC', 'n': 'KraneShares Hang Seng TECH Index ETF', 'i': 'Equity', 'm': 6067036}, {'s': 'KURE', 'n': 'KraneShares MSCI All China Health Care Index ETF', 'i': 'Equity', 'm': 45593020}, {'s': 'KVLE', 'n': 'KraneShares Value Line Dynamic Dividend Equity Index ETF', 'i': 'Equity', 'm': 30700490}, {'s': 'KWEB', 'n': 'KraneShares CSI China Internet ETF', 'i': 'Equity', 'm': 5486152700}, {'s': 'KWT', 'n': 'iShares MSCI Kuwait ETF', 'i': 'Equity', 'm': 70275760}, {'s': 'KXI', 'n': 'iShares Global Consumer Staples ETF', 'i': 'Equity', 'm': 841925600}, {'s': 'LABD', 'n': 'Direxion Daily S&P Biotech Bear 3X Shares', 'i': 'Equity', 'm': 118492104}, {'s': 'LABU', 'n': 'Direxion Daily S&P Biotech Bull 3X Shares', 'i': 'Equity', 'm': 1133845900}, {'s': 'LALT', 'n': 'First Trust Multi-Strategy Alternative ETF', 'i': 'Alternatives', 'm': 7271991.5}, {'s': 'LAPR', 'n': 'Innovator Premium Income 15 Buffer ETF - April', 'i': 'Fixed Income', 'm': 2489470}, {'s': 'LBAY', 'n': 'Leatherback Long/Short Alternative Yield ETF', 'i': 'Alternatives', 'm': 43799580}, {'s': 'LBO', 'n': 'WHITEWOLF Publicly Listed Private Equity ETF', 'i': 'Equity', 'm': 2010876}, {'s': 'LCF',

'n': 'Touchstone US Large Cap Focused ETF', 'i': 'Equity', 'm': 39134400}, {'s': 'LCG', 'n': 'Sterling Capital Focus Equity ETF', 'i': 'Equity', 'm': 71060000}, {'s': 'LCLG', 'n': 'Logan Capital Broad Innovative Growth ETF', 'i': 'Equity', 'm': 65087290}, {'s': 'LCR', 'n': 'Leuthold Core ETF', 'i': 'Asset Allocation', 'm': 84896130}, {'s': 'LCTD', 'n': 'BlackRock World ex U.S. Carbon Transition Readiness ETF', 'i': 'Equity', 'm': 358072770}, {'s': 'LCTU', 'n': 'BlackRock U.S. Carbon Transition Readiness ETF', 'i': 'Equity', 'm': 1416087200}, {'s': 'LDEM', 'n': 'iShares ESG MSCI EM Leaders ETF', 'i': 'Equity', 'm': 33391424}, {'s': 'LDSF', 'n': 'First Trust Low Duration Strategic Focus ETF', 'i': 'Fixed Income', 'm': 104087240}, {'s': 'LDUR', 'n': 'PIMCO Enhanced Low Duration Active ETF', 'i': 'Fixed Income', 'm': 893584800}, {'s': 'LEAD', 'n': 'Siren DIVCON Leaders Dividend ETF', 'i': 'Equity', 'm': 57492270}, {'s': 'LEGR', 'n': 'First Trust Indxx Innovative Transaction & Process ETF', 'i': 'Equity', 'm': 104570984}, {'s': 'LEMB', 'n': 'iShares J.P. Morgan EM Local Currency Bond ETF', 'i': 'Fixed Income', 'm': 438899870}, {'s': 'LEXI', 'n': 'Alexis Practical Tactical ETF', 'i': 'Asset Allocation', 'm': 80562720}, {'s': 'LFEQ', 'n': 'VanEck Long/Flat Trend ETF', 'i': 'Equity', 'm': 26273820}, {'s': 'LGH', 'n': 'HCM Defender 500 Index ETF', 'i': 'Equity', 'm': 355647500}, {'s': 'LGHT', 'n': 'Langar Global HealthTech ETF', 'i': 'Equity', 'm': 1880431.2}, {'s': 'LGLV', 'n': 'SPDR SSGA US Large Cap Low Volatility Index ETF', 'i': 'Equity', 'm': 706046850}, {'s': 'LGOV', 'n': 'First Trust Long Duration Opportunities ETF', 'i': 'Fixed Income', 'm': 431314530}, {'s': 'LGR0', 'n': 'Level Four Large Cap Growth Active ETF', 'i': 'Equity', 'm': 79635350}, {'s': 'LIT', 'n': 'Global X Lithium & Battery Tech ETF', 'i': 'Equity', 'm': 1639890700}, {'s': 'LITP', 'n': 'Sprott Lithium Miners ETF', 'i': 'Equity', 'm': 6293017}, {'s': 'LJAN', 'n': 'Innovator Premium Income 15 Buffer ETF - January', 'i': 'Equity', 'm': 17227070}, {'s': 'LKOR', 'n': 'FlexShares Credit-Scored US Long Corporate Bond Index Fund Credit-Scored US Long Corporate Bond Index Fund', 'i': 'Fixed Income', 'm': 31593118}, {'s': 'LMBS', 'n': 'First Trust Low Duration Opportunities ETF', 'i': 'Fixed Income', 'm': 3974438400}, {'s': 'LNGG', 'n': 'Roundhill Alerian LNG ETF', 'i': 'Equity', 'm': 759132}, {'s': 'LNGZ', 'n': 'Range Global LNG Ecosystem Index ETF', 'i': 'Equity', 'm': 262178.06}, {'s': 'LOCT', 'n': 'Innovator Premium Income 15 Buffer ETF - October', 'i': 'Equity', 'm': 19188880}, {'s': 'LONZ', 'n': 'PIMCO Senior Loan Active Exchange-Traded Fund PIMCO Senior Loan Active Exchange-Traded Fund', 'i': 'Fixed Income', 'm': 317865600}, {'s': 'LOPP', 'n': 'Gabelli Love Our Planet & People ETF', 'i': 'Equity', 'm': 12065800}, {'s': 'LOUP', 'n': 'Innovator Deepwater Frontier Tech ETF', 'i': 'Equity', 'm': 54728548}, {'s': 'LOWV', 'n': 'AB US Low Volatility Equity ETF', 'i': 'Equity', 'm': 41728840}, {'s': 'LQAI', 'n': 'LG QRAFT AI-Powered U.S. Large Cap Core ETF', 'i': 'Equity', 'm': 4456979.5}, {'s': 'LQD', 'n': 'iShares iBoxx \$ Investment Grade Corporate Bond ETF', 'i': 'Fixed Income', 'm': 28247364000}, {'s': 'LQDB', 'n': 'iShares BBB Rated Corporate Bond ETF', 'i': 'Fixed Income', 'm': 33497320}, {'s': 'LQDH', 'n': 'iShares Interest Rate Hedged Corporate Bond ETF', 'i': 'Fixed Income', 'm': 323279140}, {'s': 'LQDI', 'n': 'iShares Inflation Hedged Corporate Bond ETF', 'i': 'Fixed Income', 'm': 44733324}, {'s': 'LQDW', 'n': 'iShares Investment Grade Corporate Bond BuyWrite Strategy ETF', 'i': 'Fixed Income', 'm': 170684400}, {'s': 'LQIG', 'n': 'SPDR MarketAxess Investment Grade 400 Corporate Bond ETF', 'i': 'Fixed Income', 'm':

55957576}, {'s': 'LRGC', 'n': 'AB US Large Cap Strategic Equities ETF', 'i': 'Equity', 'm': 91907230}, {'s': 'LRGE', 'n': 'ClearBridge Large Cap Growth ESG ETF', 'i': 'Equity', 'm': 227152500}, {'s': 'LRGF', 'n': 'iShares U.S. Equity Factor ETF', 'i': 'Equity', 'm': 1859990100}, {'s': 'LRND', 'n': 'IQ U.S. Large Cap R&D Leaders ETF', 'i': 'Equity', 'm': 7047675}, {'s': 'LRNZ', 'n': 'TrueShares Technology, AI & Deep Learning ETF', 'i': 'Equity', 'm': 40850670}, {'s': 'LSAF', 'n': 'LeaderShares AlphaFactor US Core Equity ETF', 'i': 'Equity', 'm': 146823740}, {'s': 'LSAT', 'n': 'Leadershares Alphafactor Tactical Focused ETF', 'i': 'Equity', 'm': 145816260}, {'s': 'LSEQ', 'n': 'Harbor Long-Short Equity ETF', 'i': 'Alternatives', 'm': 14684947}, {'s': 'LSGR', 'n': 'Natixis Loomis Sayles Focused Growth ETF', 'i': 'Equity', 'm': 145111100}, {'s': 'LSST', 'n': 'Natixis Loomis Sayles Short Duration Income ETF', 'i': 'Fixed Income', 'm': 17850676}, {'s': 'LTL', 'n': 'ProShares Ultra Communication Services', 'i': 'Equity', 'm': 4509064}, {'s': 'LTPZ', 'n': 'PIMCO 15+ Year US TIPS Index Exchange-Traded Fund PIMCO 15+ Year U.S. TIPS Index Exchange-Traded Fund', 'i': 'Fixed Income', 'm': 707158300}, {'s': 'LUX', 'n': 'Tema Luxury ETF', 'i': 'Equity', 'm': 8134071}, {'s': 'LUXX', 'n': 'Roundhill S&P Global Luxury ETF', 'i': 'Equity', 'm': 1271990}, {'s': 'LVHD', 'n': 'Franklin U.S. Low Volatility High Dividend Index ETF', 'i': 'Equity', 'm': 624971400}, {'s': 'LVHI', 'n': 'Franklin International Low Volatility High Dividend Index ETF', 'i': 'Equity', 'm': 851238850}, {'s': 'LVOL', 'n': 'American Century Low Volatility ETF', 'i': 'Equity', 'm': 12021048}, {'s': 'MAGA', 'n': 'Point Bridge America First ETF', 'i': 'Equity', 'm': 21403500}, {'s': 'MAGG', 'n': 'Madison Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 51970170}, {'s': 'MAGQ', 'n': 'Roundhill Daily Inverse Magnificent Seven ETF', 'i': 'Equity', 'm': 477142}, {'s': 'MAGS', 'n': 'Roundhill Magnificent Seven ETF', 'i': 'Equity', 'm': 215159870}, {'s': 'MAGX', 'n': 'Roundhill Daily 2X Long Magnificent Seven ETF', 'i': 'Equity', 'm': 2069600}, {'s': 'MAKX', 'n': 'ProShares S&P Kensho Smart Factories ETF', 'i': 'Equity', 'm': 929729.7}, {'s': 'MAMB', 'n': 'Monarch Ambassador Income Index ETF', 'i': 'Asset Allocation', 'm': 71395000}, {'s': 'MAPP', 'n': 'Harbor Multi-Asset Explorer ETF', 'i': 'Asset Allocation', 'm': 4340000}, {'s': 'MARB', 'n': 'First Trust Merger Arbitrage ETF', 'i': 'Alternatives', 'm': 45475640}, {'s': 'MARM', 'n': 'FT Vest U.S. Equity Max Buffer ETF - March', 'i': 'Equity', 'm': 74742010}, {'s': 'MART', 'n': 'AllianzIM U.S. Large Cap Buffer10 Mar ETF', 'i': 'Equity', 'm': 97829730}, {'s': 'MARW', 'n': 'AllianzIM U.S. Large Cap Buffer20 Mar ETF', 'i': 'Equity', 'm': 220333180}, {'s': 'MARZ', 'n': 'TrueShares Structured Outcome (March) ETF', 'i': 'Equity', 'm': 22366276}, {'s': 'MAXI', 'n': 'Simplify Bitcoin Strategy PLUS Income ETF', 'i': 'Currency', 'm': 21662130}, {'s': 'MAYT', 'n': 'AllianzIM U.S. Large Cap Buffer10 May ETF', 'i': 'Equity', 'm': 12550378}, {'s': 'MAYW', 'n': 'AllianzIM U.S. Large Cap Buffer20 May ETF', 'i': 'Equity', 'm': 37761930}, {'s': 'MAYZ', 'n': 'TrueShares Structured Outcome (May) ETF', 'i': 'Equity', 'm': 4482400}, {'s': 'MBB', 'n': 'iShares MBS ETF', 'i': 'Fixed Income', 'm': 27925733000}, {'s': 'MBBB', 'n': 'VanEck Moody's Analytics BBB Corporate Bond ETF', 'i': 'Fixed Income', 'm': 8334720}, {'s': 'MBCC', 'n': 'Monarch Blue Chips Core Index ETF', 'i': 'Equity', 'm': 87281750}, {'s': 'MBND', 'n': 'SPDR Nuveen Municipal Bond ETF', 'i': 'Fixed Income', 'm': 47707212}, {'s': 'MBNE', 'n': 'SPDR Nuveen Municipal Bond ESG ETF', 'i': 'Fixed Income', 'm': 39887380}, {'s': 'MBOX', 'n': 'Freedom Day

Dividend ETF', 'i': 'Equity', 'm': 95425490}, {'s': 'MBS', 'n': 'Angel Oak  
 Mortgage-Backed Securities ETF', 'i': 'Fixed Income', 'm': 31795492}, {'s':  
 'MBSD', 'n': 'FlexShares Disciplined Duration MBS Index Fund Disciplined  
 Duration MBS Index Fund', 'i': 'Fixed Income', 'm': 79126024}, {'s': 'MBSF',  
 'n': 'Regan Floating Rate MBS ETF', 'i': 'Fixed Income', 'm': 39075500}, {'s':  
 'MCH', 'n': 'Matthews China Active ETF', 'i': 'Equity', 'm': 21607560}, {'s':  
 'MCHI', 'n': 'iShares MSCI China ETF', 'i': 'Equity', 'm': 4917815300}, {'s':  
 'MCHS', 'n': 'Matthews China Discovery Active ETF', 'i': 'Equity', 'm':  
 2071840}, {'s': 'MCSE', 'n': 'Martin Currie Sustainable International Equity  
 ETF', 'i': 'Equity', 'm': 33000470}, {'s': 'MDCP', 'n': 'VictoryShares THB Mid  
 Cap ETF', 'i': 'Equity', 'm': 105087860}, {'s': 'MDEV', 'n': 'First Trust Indxx  
 Medical Devices ETF', 'i': 'Equity', 'm': 3113141.5}, {'s': 'MDIV', 'n': 'Multi-  
 Asset Diversified Income Index Fund', 'i': 'Asset Allocation', 'm': 427286720},  
 {'s': 'MDLV', 'n': 'Morgan Dempsey Large Cap Value ETF', 'i': 'Equity', 'm':  
 10471020}, {'s': 'MDPL', 'n': 'Monarch Dividend Plus Index ETF', 'i': 'Equity',  
 'm': 34357600}, {'s': 'MDST', 'n': 'Westwood Salient Enhanced Midstream Income  
 ETF', 'i': 'Equity', 'm': 2476714}, {'s': 'MDY', 'n': 'SPDR S&P Midcap 400 ETF  
 Trust', 'i': 'Equity', 'm': 21255725000}, {'s': 'MDYG', 'n': 'SPDR S&P 400 Mid  
 Cap Growth ETF', 'i': 'Equity', 'm': 3001313500}, {'s': 'MDYV', 'n': 'SPDR S&P  
 400 Mid Cap Value ETF', 'i': 'Equity', 'm': 2505324300}, {'s': 'MEAR', 'n':  
 'BlackRock Short Maturity Municipal Bond ETF', 'i': 'Fixed Income', 'm':  
 637127700}, {'s': 'MEDI', 'n': 'Harbor Health Care ETF', 'i': 'Equity', 'm':  
 14415500}, {'s': 'MEDX', 'n': 'Horizon Kinetics Medical ETF', 'i': 'Equity',  
 'm': 16950488}, {'s': 'MEM', 'n': 'Matthews Emerging Markets Equity Active ETF',  
 'i': 'Equity', 'm': 58287240}, {'s': 'MEMS', 'n': 'Matthews Emerging Markets  
 Discovery Active ETF', 'i': 'Equity', 'm': 6197520}, {'s': 'MEMX', 'n':  
 'Matthews Emerging Markets ex China Active ETF', 'i': 'Equity', 'm': 12745920},  
 {'s': 'METV', 'n': 'Roundhill Ball Metaverse ETF', 'i': 'Equity', 'm':  
 419133440}, {'s': 'MEXX', 'n': 'Direxion Daily MSCI Mexico Bull 3X Shares', 'i':  
 'Equity', 'm': 15843932}, {'s': 'MFDX', 'n': 'PIMCO RAFI Dynamic Multi-Factor  
 International Equity ETF', 'i': 'Equity', 'm': 252336000}, {'s': 'MFEM', 'n':  
 'PIMCO RAFI Dynamic Multi-Factor Emerging Markets Equity ETF', 'i': 'Equity',  
 'm': 96481200}, {'s': 'MFLX', 'n': 'First Trust Flexible Municipal High Income  
 ETF', 'i': 'Fixed Income', 'm': 16013234}, {'s': 'MFUL', 'n': 'Collaborative  
 Investment - Mindful Conservative ETF', 'i': 'Asset Allocation', 'm': 55540536},  
 {'s': 'MFUS', 'n': 'PIMCO RAFI Dynamic Multi-Factor U.S. Equity ETF', 'i':  
 'Equity', 'm': 148216600}, {'s': 'MGC', 'n': 'Vanguard Mega Cap ETF', 'i':  
 'Equity', 'm': 5381790000}, {'s': 'MGK', 'n': 'Vanguard Mega Cap Growth ETF',  
 'i': 'Equity', 'm': 19238906000}, {'s': 'MGMT', 'n': 'Ballast Small/Mid Cap  
 ETF', 'i': 'Equity', 'm': 139536000}, {'s': 'MGNR', 'n': 'American Beacon GLG  
 Natural Resources ETF', 'i': 'Equity', 'm': 33833028}, {'s': 'MGOV', 'n': 'First  
 Trust Intermediate Government Opportunities ETF', 'i': 'Fixed Income', 'm':  
 30499390}, {'s': 'MGRO', 'n': 'VanEck Morningstar Wide Moat Growth ETF', 'i':  
 'Equity', 'm': 740135}, {'s': 'MGV', 'n': 'Vanguard Mega Cap Value ETF', 'i':  
 'Equity', 'm': 7065110000}, {'s': 'MID', 'n': 'American Century Mid Cap Growth  
 Impact ETF', 'i': 'Equity', 'm': 66091410}, {'s': 'MIDE', 'n': 'Xtrackers S&P  
 MidCap 400 ESG ETF', 'i': 'Equity', 'm': 7221029}, {'s': 'MIDU', 'n': 'Direxion  
 Daily Mid Cap Bull 3x Shares', 'i': 'Equity', 'm': 83414180}, {'s': 'MIG', 'n':

"VanEck Moody's Analytics IG Corporate Bond ETF", 'i': 'Fixed Income', 'm': 12454140}, {'s': 'MILN', 'n': 'Global X Millennial Consumer ETF', 'i': 'Equity', 'm': 120575530}, {'s': 'MINN', 'n': 'Mairs & Power Minnesota Municipal Bond ETF', 'i': 'Fixed Income', 'm': 19559886}, {'s': 'MINO', 'n': 'PIMCO Municipal Income Opportunities Active Exchange-Traded Fund PIMCO Municipal Income Opportunities Active ETF', 'i': 'Fixed Income', 'm': 143322600}, {'s': 'MINT', 'n': 'PIMCO Enhanced Short Maturity Active Exchange-Traded Fund PIMCO Enhanced Short Maturity Active Exchange-Traded Fund', 'i': 'Fixed Income', 'm': 11437756000}, {'s': 'MINV', 'n': 'Matthews Asia Innovators Active ETF', 'i': 'Equity', 'm': 69508800}, {'s': 'MISL', 'n': 'First Trust Indxx Aerospace & Defense ETF', 'i': 'Equity', 'm': 51710150}, {'s': 'MJ', 'n': 'Amplify Alternative Harvest ETF', 'i': 'Equity', 'm': 273378980}, {'s': 'MJUS', 'n': 'Amplify U.S. Alternative Harvest ETF', 'i': 'Equity', 'm': 123242830}, {'s': 'MKAM', 'n': 'MKAM ETF', 'i': 'Asset Allocation', 'm': 6359500}, {'s': 'MKOR', 'n': 'Matthews Korea Active ETF', 'i': 'Equity', 'm': 64559516}, {'s': 'MLN', 'n': 'VanEck Long Muni ETF', 'i': 'Fixed Income', 'm': 434390140}, {'s': 'MLPA', 'n': 'Global X MLP ETF', 'i': 'Equity', 'm': 1606778400}, {'s': 'MLPX', 'n': 'Global X MLP & Energy Infrastructure ETF', 'i': 'Equity', 'm': 1065753200}, {'s': 'MMCA', 'n': 'IQ MacKay California Municipal Intermediate ETF', 'i': 'Fixed Income', 'm': 24693950}, {'s': 'MMIN', 'n': 'IQ MacKay Municipal Insured ETF', 'i': 'Fixed Income', 'm': 450914240}, {'s': 'MMIT', 'n': 'IQ MacKay Municipal Intermediate ETF', 'i': 'Fixed Income', 'm': 649637800}, {'s': 'MMLG', 'n': 'First Trust Multi-Manager Large Growth ETF', 'i': 'Equity', 'm': 69092550}, {'s': 'MMSC', 'n': 'First Trust Multi-Manager Small Cap Opportunities ETF', 'i': 'Equity', 'm': 12439738}, {'s': 'MMTM', 'n': 'SPDR S&P 1500 Momentum Tilt ETF', 'i': 'Equity', 'm': 98562744}, {'s': 'MNA', 'n': 'IQ Merger Arbitrage ETF', 'i': 'Alternatives', 'm': 283906800}, {'s': 'MNBD', 'n': 'ALPS Intermediate Municipal Bond ETF', 'i': 'Fixed Income', 'm': 31875052}, {'s': 'MNTL', 'n': 'Tema Neuroscience and Mental Health ETF', 'i': 'Equity', 'm': 11031020}, {'s': 'MOAT', 'n': 'VanEck Morningstar Wide Moat ETF', 'i': 'Equity', 'm': 14701462000}, {'s': 'MODL', 'n': 'VictoryShares WestEnd U.S. Sector ETF', 'i': 'Equity', 'm': 339917950}, {'s': 'MOHR', 'n': 'Mohr Growth ETF', 'i': 'Equity', 'm': 67864376}, {'s': 'MOO', 'n': 'VanEck Agribusiness ETF', 'i': 'Equity', 'm': 813414200}, {'s': 'MOOD', 'n': 'Relative Sentiment Tactical Allocation ETF', 'i': 'Asset Allocation', 'm': 14912610}, {'s': 'MOON', 'n': 'Direxion Moonshot Innovators ETF', 'i': 'Equity', 'm': 23824310}, {'s': 'MORT', 'n': 'VanEck Mortgage REIT Income ETF', 'i': 'Equity', 'm': 251986190}, {'s': 'MOTE', 'n': 'VanEck Morningstar ESG Moat ETF', 'i': 'Equity', 'm': 6588610}, {'s': 'MOTG', 'n': 'VanEck Morningstar Global Wide Moat ETF', 'i': 'Equity', 'm': 17843500}, {'s': 'MOTI', 'n': 'VanEck Morningstar International Moat ETF', 'i': 'Equity', 'm': 219845800}, {'s': 'MOTO', 'n': 'SmartETFs Smart Transportation & Technology ETF', 'i': 'Equity', 'm': 10851712}, {'s': 'MPAY', 'n': 'Akros Monthly Payout ETF', 'i': 'Asset Allocation', 'm': 1928744.1}, {'s': 'MPRO', 'n': 'Monarch ProCap Index ETF', 'i': 'Asset Allocation', 'm': 118475000}, {'s': 'MRAD', 'n': 'SmartETFs Advertising & Marketing Technology ETF', 'i': 'Equity', 'm': 925743.44}, {'s': 'MRCP', 'n': 'PGIM US Large-Cap Buffer 12 ETF - March', 'i': 'Equity', 'm': 3550845.2}, {'s': 'MRGR', 'n': 'ProShares Merger ETF', 'i': 'Alternatives', 'm': 10126866}, {'s': 'MRNY', 'n':

'YieldMax MRNA Option Income Strategy ETF', 'i': 'Equity', 'm': 25363750}, {'s':  
 'MRSK', 'n': 'Toews Agility Shares Managed Risk ETF', 'i': 'Asset Allocation',  
 'm': 131114250}, {'s': 'MSFD', 'n': 'Direxion Daily MSFT Bear 1X Shares ETF',  
 'i': 'Equity', 'm': 7549313.5}, {'s': 'MSFL', 'n': 'GraniteShares 2x Long MSFT  
 Daily ETF', 'i': 'Equity', 'm': 3408626.2}, {'s': 'MSFO', 'n': 'YieldMax MSFT  
 Option Income Strategy ETF', 'i': 'Equity', 'm': 51810996}, {'s': 'MSFU', 'n':  
 'Direxion Daily MSFT Bull 2X Shares', 'i': 'Equity', 'm': 84740450}, {'s':  
 'MSFX', 'n': 'T-Rex 2X Long Microsoft Daily Target ETF', 'i': 'Equity', 'm':  
 6743048}, {'s': 'MSFY', 'n': 'Kurv Yield Premium Strategy Microsoft (MSFT) ETF',  
 'i': 'Equity', 'm': 858600}, {'s': 'MSMR', 'n': 'McElhenny Sheffield Managed  
 Risk ETF', 'i': 'Asset Allocation', 'm': 48528500}, {'s': 'MSOS', 'n':  
 'AdvisorShares Pure US Cannabis ETF', 'i': 'Equity', 'm': 1119301200}, {'s':  
 'MSOX', 'n': 'AdvisorShares MSOS 2x Daily ETF', 'i': 'Equity', 'm': 94618480},  
 {'s': 'MSSS', 'n': 'Monarch Select Subsector Index ETF', 'i': 'Equity', 'm':  
 56206200}, {'s': 'MSTB', 'n': 'LHA Market State Tactical Beta ETF', 'i':  
 'Equity', 'm': 130146070}, {'s': 'MSTI', 'n': 'Madison Short Term Strategic  
 Income ETF', 'i': 'Fixed Income', 'm': 59062184}, {'s': 'MSTQ', 'n': 'LHA Market  
 State Tactical Q ETF', 'i': 'Equity', 'm': 14564640}, {'s': 'MSTY', 'n':  
 'YieldMax MSTR Option Income Strategy ETF', 'i': 'Equity', 'm': 89865500}, {'s':  
 'MSVX', 'n': 'LHA Market State Alpha Seeker ETF', 'i': 'Equity', 'm': 21267810},  
 {'s': 'MTBA', 'n': 'Simplify MBS ETF', 'i': 'Fixed Income', 'm': 517303200},  
 {'s': 'MTGP', 'n': 'WisdomTree Mortgage Plus Bond Fund', 'i': 'Fixed Income',  
 'm': 46759900}, {'s': 'MTUM', 'n': 'iShares MSCI USA Momentum Factor ETF', 'i':  
 'Equity', 'm': 10359101000}, {'s': 'MUB', 'n': 'iShares National Muni Bond ETF',  
 'i': 'Fixed Income', 'm': 36895920000}, {'s': 'MUNI', 'n': 'PIMCO Intermediate  
 Municipal Bond Active Exchange-Traded Fund PIMCO Intermediate Municipal Bond  
 Exchange-Traded Fund', 'i': 'Fixed Income', 'm': 1397128400}, {'s': 'MUSI', 'n':  
 'American Century Multisector Income ETF', 'i': 'Fixed Income', 'm': 189019540},  
 {'s': 'MUSQ', 'n': 'MUSQ Global Music Industry ETF', 'i': 'Equity', 'm':  
 20396206}, {'s': 'MUST', 'n': 'Columbia Multi-Sector Municipal Income ETF', 'i':  
 'Fixed Income', 'm': 390786000}, {'s': 'MVAL', 'n': 'VanEck Morningstar Wide  
 Moat Value ETF', 'i': 'Equity', 'm': 743562.5}, {'s': 'MVFD', 'n': 'Monarch  
 Volume Factor Dividend Tree Index ETF', 'i': 'Asset Allocation', 'm': 35084000},  
 {'s': 'MVFG', 'n': 'Monarch Volume Factor Global Unconstrained Index ETF', 'i':  
 'Asset Allocation', 'm': 43230200}, {'s': 'MVPA', 'n': 'Miller Value Partners  
 Appreciation ETF', 'i': 'Equity', 'm': 52413020}, {'s': 'MVPL', 'n': 'Miller  
 Value Partners Leverage ETF', 'i': 'Equity', 'm': 5479866}, {'s': 'MVPS', 'n':  
 'Amplify Thematic All-Stars ETF', 'i': 'Equity', 'm': 2671037.5}, {'s': 'MVV',  
 'n': 'ProShares Ultra MidCap400', 'i': 'Equity', 'm': 141859550}, {'s': 'MXI',  
 'n': 'iShares Global Materials ETF', 'i': 'Equity', 'm': 259525340}, {'s':  
 'MYLD', 'n': 'Cambria Micro and SmallCap Shareholder Yield ETF', 'i': 'Equity',  
 'm': 27066164}, {'s': 'MYV', 'n': 'ProShares Short S&P Mid Cap400', 'i':  
 'Equity', 'm': 5982789.5}, {'s': 'MZZ', 'n': 'ProShares UltraShort MidCap400',  
 'i': 'Equity', 'm': 1558736.1}, {'s': 'NACP', 'n': 'Tidal Trust III NAACP  
 MINORITY EMPOWERMENT ETF', 'i': 'Equity', 'm': 43701050}, {'s': 'NAIL', 'n':  
 'Direxion Daily Homebuilders & Supplies Bull 3X Shares', 'i': 'Equity', 'm':  
 279631200}, {'s': 'NANC', 'n': 'Unusual Whales Subversive Democratic Trading  
 ETF', 'i': 'Equity', 'm': 74754660}, {'s': 'NANR', 'n': 'SPDR S&P North American

Natural Resources ETF', 'i': 'Equity', 'm': 568902700}, {'s': 'NAPR', 'n':  
 'Innovator Growth-100 Power Buffer ETF - April', 'i': 'Equity', 'm': 174110180},  
 {'s': 'NBCC', 'n': 'Neuberger Berman Next Generation Connected Consumer ETF',  
 'i': 'Equity', 'm': 5640547.5}, {'s': 'NBCE', 'n': 'Neuberger Berman China  
 Equity ETF', 'i': 'Equity', 'm': 5548764}, {'s': 'NBCM', 'n': 'Neuberger Berman  
 Commodity Strategy ETF', 'i': 'Commodity', 'm': 275922080}, {'s': 'NBCT', 'n':  
 'Neuberger Berman Carbon Transition Infrastructure ETF', 'i': 'Equity', 'm':  
 28385938}, {'s': 'NBDS', 'n': 'Neuberger Berman Disrupters ETF', 'i': 'Equity',  
 'm': 15919910}, {'s': 'NBGR', 'n': 'Neuberger Berman Global Real Estate ETF',  
 'i': 'Equity', 'm': 5840484}, {'s': 'NBOS', 'n': 'Neuberger Berman Option  
 Strategy ETF', 'i': 'Equity', 'm': 456423460}, {'s': 'NBSM', 'n': 'Neuberger  
 Berman Small-Mid Cap ETF', 'i': 'Equity', 'm': 163507120}, {'s': 'NCPB', 'n':  
 'Nuveen Core Plus Bond ETF', 'i': 'Fixed Income', 'm': 29472000}, {'s': 'NDIA',  
 'n': 'Global X India Active ETF', 'i': 'Equity', 'm': 12567717}, {'s': 'NDIV',  
 'n': 'Amplify Natural Resources Dividend Income ETF', 'i': 'Equity', 'm':  
 12625688}, {'s': 'NDVG', 'n': 'Nuveen Dividend Growth ETF', 'i': 'Equity', 'm':  
 13897920}, {'s': 'NEAR', 'n': 'BlackRock Short Duration Bond ETF', 'i': 'Fixed  
 Income', 'm': 2973082600}, {'s': 'NERD', 'n': 'Roundhill Video Games ETF', 'i':  
 'Equity', 'm': 18976500}, {'s': 'NETL', 'n': 'NETLease Corporate Real Estate  
 ETF', 'i': 'Equity', 'm': 53631936}, {'s': 'NETZ', 'n': 'TCW Transform Systems  
 ETF', 'i': 'Equity', 'm': 125221510}, {'s': 'NFLP', 'n': 'Kurv Yield Premium  
 Strategy Netflix (NFLX) ETF', 'i': 'Equity', 'm': 642060}, {'s': 'NFLT', 'n':  
 'Virtus Newfleet Multi-Sector Bond ETF', 'i': 'Fixed Income', 'm': 93252690},  
 {'s': 'NFLY', 'n': 'YieldMax NFLX Option Income Strategy ETF', 'i': 'Equity',  
 'm': 45622250}, {'s': 'NFRA', 'n': 'FlexShares STOXX Global Broad Infrastructure  
 Index Fund STOXX Global Broad Infrastructure Index Fund', 'i': 'Equity', 'm':  
 2215697400}, {'s': 'NFTY', 'n': 'First Trust India NIFTY 50 Equal Weight ETF',  
 'i': 'Equity', 'm': 195143120}, {'s': 'NIKL', 'n': 'Sprott Nickel Miners ETF',  
 'i': 'Equity', 'm': 4606685}, {'s': 'NJAN', 'n': 'Innovator Growth-100 Power  
 Buffer ETF - January', 'i': 'Equity', 'm': 249443970}, {'s': 'NJUL', 'n':  
 'Innovator Growth-100 Power Buffer ETF - July', 'i': 'Equity', 'm': 182151900},  
 {'s': 'NLR', 'n': 'VanEck Uranium+Nuclear Energy ETF', 'i': 'Equity', 'm':  
 153701920}, {'s': 'NOBL', 'n': 'ProShares S&P 500 Dividend Aristocrats ETF',  
 'i': 'Equity', 'm': 11971433000}, {'s': 'NOCT', 'n': 'Innovator Growth-100 Power  
 Buffer ETF- October', 'i': 'Equity', 'm': 166119150}, {'s': 'NORW', 'n': 'Global  
 X MSCI Norway ETF', 'i': 'Equity', 'm': 50030980}, {'s': 'NOVZ', 'n':  
 'TrueShares Structured Outcome (November) ETF', 'i': 'Equity', 'm': 17536404},  
 {'s': 'NPFI', 'n': 'Nuveen Preferred and Income ETF', 'i': 'Fixed Income', 'm':  
 15028380}, {'s': 'NRES', 'n': 'Xtrackers RREEF Global Natural Resources ETF',  
 'i': 'Equity', 'm': 11871978}, {'s': 'NRSH', 'n': 'Aztlan North America  
 Nearshoring Stock Selection ETF', 'i': 'Equity', 'm': 10103725}, {'s': 'NSCR',  
 'n': 'Nuveen Sustainable Core ETF', 'i': 'Equity', 'm': 5717118}, {'s': 'NSCS',  
 'n': 'Nuveen Small Cap Select ETF', 'i': 'Equity', 'm': 6846294}, {'s': 'NSI',  
 'n': 'National Security Emerging Markets Index ETF', 'i': 'Equity', 'm':  
 7236000}, {'s': 'NTSE', 'n': 'WisdomTree Emerging Markets Efficient Core Fund',  
 'i': 'Asset Allocation', 'm': 55127280}, {'s': 'NTSI', 'n': 'WisdomTree  
 International Efficient Core Fund', 'i': 'Asset Allocation', 'm': 312963000},  
 {'s': 'NTSX', 'n': 'WisdomTree U.S. Efficient Core Fund', 'i': 'Asset



Allocation', 'm': 1020402940}, {'s': 'NTZG', 'n': 'Nuveen Global Net Zero Transition ETF', 'i': 'Equity', 'm': 6335940}, {'s': 'NUAG', 'n': 'Nuveen Enhanced Yield U.S. Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 26548860}, {'s': 'NUBD', 'n': 'Nuveen ESG U.S. Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 343225600}, {'s': 'NUDM', 'n': 'Nuveen ESG International Developed Markets Equity ETF', 'i': 'Equity', 'm': 407955140}, {'s': 'NUDV', 'n': 'Nuveen ESG Dividend ETF', 'i': 'Equity', 'm': 7909140}, {'s': 'NUEM', 'n': 'Nuveen ESG Emerging Markets Equity ETF', 'i': 'Equity', 'm': 254228200}, {'s': 'NUGO', 'n': 'Nuveen Growth Opportunities ETF', 'i': 'Equity', 'm': 2961682000}, {'s': 'NUGT', 'n': 'Direxion Daily Gold Miners Index Bull 2x Shares', 'i': 'Equity', 'm': 620492350}, {'s': 'NUHY', 'n': 'Nuveen ESG High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 80708550}, {'s': 'NUKZ', 'n': 'Range Nuclear Renaissance Index ETF', 'i': 'Equity', 'm': 3169257.5}, {'s': 'NULC', 'n': 'Nuveen ESG Large-Cap ETF', 'i': 'Equity', 'm': 29630580}, {'s': 'NULG', 'n': 'Nuveen ESG Large-Cap Growth ETF', 'i': 'Equity', 'm': 1312617900}, {'s': 'NULV', 'n': 'Nuveen ESG Large-Cap Value ETF', 'i': 'Equity', 'm': 1578758800}, {'s': 'NUMG', 'n': 'Nuveen ESG Mid-Cap Growth ETF', 'i': 'Equity', 'm': 390912930}, {'s': 'NUMV', 'n': 'Nuveen ESG Mid-Cap Value ETF', 'i': 'Equity', 'm': 334785700}, {'s': 'NURE', 'n': 'Nuveen Short-Term REIT ETF', 'i': 'Equity', 'm': 47041880}, {'s': 'NUSA', 'n': 'Nuveen ESG 1-5 Year U.S. Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 22666400}, {'s': 'NUSB', 'n': 'Nuveen Ultra Short Income ETF', 'i': 'Fixed Income', 'm': 15646000}, {'s': 'NUSC', 'n': 'Nuveen ESG Small-Cap ETF', 'i': 'Equity', 'm': 1133693800}, {'s': 'NUSI', 'n': 'Nationwide Nasdaq-100 Risk-Managed Income ETF', 'i': 'Equity', 'm': 390850370}, {'s': 'NVBT', 'n': 'AllianzIM U.S. Large Cap Buffer10 Nov ETF', 'i': 'Equity', 'm': 9877108}, {'s': 'NVBW', 'n': 'AllianzIM U.S. Large Cap Buffer20 Nov ETF', 'i': 'Equity', 'm': 32894662}, {'s': 'NVD', 'n': 'GraniteShares 2x Short NVDA Daily ETF', 'i': 'Equity', 'm': 29631004}, {'s': 'NVDD', 'n': 'Direxion Daily NVDA Bear 1X Shares', 'i': 'Equity', 'm': 9142411}, {'s': 'NVDL', 'n': 'GraniteShares 2x Long NVDA Daily ETF', 'i': 'Equity', 'm': 1883488300}, {'s': 'NVDQ', 'n': 'T-Rex 2X Inverse NVIDIA Daily Target ETF', 'i': 'Equity', 'm': 13535132}, {'s': 'NVDS', 'n': 'AXS 1.25X NVDA Bear Daily ETF', 'i': 'Equity', 'm': 72852696}, {'s': 'NVDU', 'n': 'Direxion Daily NVDA Bull 2X Shares', 'i': 'Equity', 'm': 134767070}, {'s': 'NVDX', 'n': 'T-Rex 2X Long NVIDIA Daily Target ETF', 'i': 'Equity', 'm': 365235840}, {'s': 'NVDY', 'n': 'YieldMax NVDA Option Income Strategy ETF', 'i': 'Equity', 'm': 428972320}, {'s': 'NVIR', 'n': 'Horizon Kinetics Energy and Remediation ETF', 'i': 'Equity', 'm': 3599558.2}, {'s': 'NWLG', 'n': 'Nuveen Winslow Large-Cap Growth ESG ETF', 'i': 'Equity', 'm': 7412650}, {'s': 'NXTE', 'n': 'AXS Green Alpha ETF', 'i': 'Equity', 'm': 55978476}, {'s': 'NXTG', 'n': 'First Trust Indxx NextG ETF', 'i': 'Equity', 'm': 383542750}, {'s': 'NYF', 'n': 'iShares New York Muni Bond ETF', 'i': 'Fixed Income', 'm': 672328500}, {'s': 'NZAC', 'n': 'SPDR MSCI ACWI Climate Paris Aligned ETF', 'i': 'Equity', 'm': 110059580}, {'s': 'NZUS', 'n': 'SPDR MSCI USA Climate Paris Aligned ETF', 'i': 'Equity', 'm': 2310038}, {'s': 'OACP', 'n': 'OneAscent Core Plus Bond ETF', 'i': 'Fixed Income', 'm': 149343000}, {'s': 'OAEM', 'n': 'OneAscent Emerging Markets ETF', 'i': 'Equity', 'm': 48288000}, {'s': 'OAIA', 'n': 'Teucrium AiLA Long-Short Agriculture Strategy ETF', 'i': 'Alternatives', 'm': 4941855}, {'s': 'OAIB', 'n': 'Teucrium AiLA Long/Short Base

Metals Strategy ETF', 'i': 'Alternatives', 'm': 3491835}, {'s': 'OAIM', 'n':  
 'OneAscent International Equity ETF', 'i': 'Equity', 'm': 118298250}, {'s':  
 'OALC', 'n': 'OneAscent Large Cap Core ETF', 'i': 'Equity', 'm': 102410000},  
 {'s': 'OARK', 'n': 'YieldMax Innovation Option Income Strategy ETF', 'i':  
 'Equity', 'm': 71193840}, {'s': 'OBIL', 'n': 'US Treasury 12 Month Bill ETF',  
 'i': 'Fixed Income', 'm': 229343340}, {'s': 'OBND', 'n': 'SPDR Loomis Sayles  
 Opportunistic Bond ETF', 'i': 'Fixed Income', 'm': 36968484}, {'s': 'OBOR', 'n':  
 'KraneShares MSCI One Belt One Road Index ETF', 'i': 'Equity', 'm': 4289173},  
 {'s': 'OCEN', 'n': 'IQ Clean Oceans ETF', 'i': 'Equity', 'm': 4974975}, {'s':  
 'OCIO', 'n': 'ClearShares OCIO ETF', 'i': 'Asset Allocation', 'm': 133012740},  
 {'s': 'OCTD', 'n': 'Innovator Premium Income 10 Barrier ETF - October', 'i':  
 'Equity', 'm': 4857720}, {'s': 'OCTH', 'n': 'Innovator Premium Income 20 Barrier  
 ETF - October', 'i': 'Equity', 'm': 19332400}, {'s': 'OCTJ', 'n': 'Innovator  
 Premium Income 30 Barrier ETF - October', 'i': 'Equity', 'm': 22852440}, {'s':  
 'OCTQ', 'n': 'Innovator Premium Income 40 Barrier ETF - October', 'i': 'Equity',  
 'm': 11987450}, {'s': 'OCTT', 'n': 'AllianzIM U.S. Large Cap Buffer10 Oct ETF',  
 'i': 'Equity', 'm': 39399140}, {'s': 'OCTW', 'n': 'AllianzIM U.S. Large Cap  
 Buffer20 Oct ETF', 'i': 'Equity', 'm': 133686960}, {'s': 'OCTZ', 'n':  
 'TrueShares Structured Outcome (October) ETF', 'i': 'Equity', 'm': 3939001},  
 {'s': 'ODDS', 'n': 'Pacer BlueStar Digital Entertainment ETF', 'i': 'Equity',  
 'm': 840800}, {'s': 'OEF', 'n': 'iShares S&P 100 ETF', 'i': 'Equity', 'm':  
 11669588000}, {'s': 'OEUR', 'n': 'ALPS O'Shares Europe Quality Dividend ETF',  
 'i': 'Equity', 'm': 38438250}, {'s': 'OFOS', 'n': 'Range Global Offshore Oil  
 Services Index ETF', 'i': 'Equity', 'm': 8419427}, {'s': 'OGIG', 'n': 'ALPS  
 O'Shares Global Internet Giants ETF', 'i': 'Equity', 'm': 142350000}, {'s':  
 'OGSP', 'n': 'Obra High Grade Structured Products ETF', 'i': 'Fixed Income',  
 'm': 25234726}, {'s': 'OIH', 'n': 'VanEck Oil Services ETF', 'i': 'Equity', 'm':  
 2261065500}, {'s': 'OILK', 'n': 'ProShares K-1 Free Crude Oil Strategy ETF',  
 'i': 'Commodity', 'm': 145304540}, {'s': 'OILT', 'n': 'Texas Capital Texas Oil  
 Index ETF', 'i': 'Equity', 'm': 14635000}, {'s': 'OMFL', 'n': 'Invesco Russell  
 1000 Dynamic Multifactor ETF', 'i': 'Equity', 'm': 6130919000}, {'s': 'OMFS',  
 'n': 'Invesco Russell 2000 Dynamic Multifactor ETF', 'i': 'Equity', 'm':  
 365968450}, {'s': 'OND', 'n': 'ProShares On-Demand ETF', 'i': 'Equity', 'm':  
 712671}, {'s': 'ONEO', 'n': 'SPDR Russell 1000 Momentum Focus ETF', 'i':  
 'Equity', 'm': 150625840}, {'s': 'ONEQ', 'n': 'Fidelity Nasdaq Composite Index  
 ETF', 'i': 'Equity', 'm': 6120381400}, {'s': 'ONEV', 'n': 'SPDR Russell 1000 Low  
 Volatility Focus ETF', 'i': 'Equity', 'm': 635771200}, {'s': 'ONEY', 'n': 'SPDR  
 Russell 1000 Yield Focus ETF', 'i': 'Equity', 'm': 798988700}, {'s': 'ONLN',  
 'n': 'ProShares Online Retail ETF', 'i': 'Equity', 'm': 100058510}, {'s':  
 'ONOF', 'n': 'Global X Adaptive U.S. Risk Management ETF', 'i': 'Asset  
 Allocation', 'm': 115616060}, {'s': 'OOSP', 'n': 'Obra Opportunistic Structured  
 Products ETF', 'i': 'Fixed Income', 'm': 15298317}, {'s': 'OOT0', 'n': 'Direxion  
 Daily Travel & Vacation Bull 2X Shares', 'i': 'Equity', 'm': 11802766}, {'s':  
 'OPER', 'n': 'ClearShares Ultra-Short Maturity ETF', 'i': 'Fixed Income', 'm':  
 165577500}, {'s': 'OSCV', 'n': 'Opus Small Cap Value ETF', 'i': 'Equity', 'm':  
 272526080}, {'s': 'OSEA', 'n': 'Harbor International Compounders ETF', 'i':  
 'Equity', 'm': 88242000}, {'s': 'OUNZ', 'n': 'VanEck Merk Gold Trust', 'i':  
 'Commodity', 'm': 921607740}, {'s': 'OUSA', 'n': 'ALPS O'Shares U.S. Quality

Dividend ETF", 'i': 'Equity', 'm': 733963800}, {'s': 'OUSM', 'n': "ALPS O'Shares  
 US Small-Cap Quality Dividend ETF", 'i': 'Equity', 'm': 563617340}, {'s': 'OVB',  
 'n': 'Overlay Shares Core Bond ETF', 'i': 'Fixed Income', 'm': 47564876}, {'s':  
 'OVF', 'n': 'Overlay Shares Foreign Equity ETF', 'i': 'Equity', 'm': 17791560},  
 {'s': 'OVL', 'n': 'Overlay Shares Large Cap Equity ETF', 'i': 'Equity', 'm':  
 137506380}, {'s': 'OVLH', 'n': 'Overlay Shares Hedged Large Cap Equity ETF',  
 'i': 'Equity', 'm': 31660800}, {'s': 'OVM', 'n': 'Overlay Shares Municipal Bond  
 ETF', 'i': 'Fixed Income', 'm': 20933408}, {'s': 'OVS', 'n': 'Overlay Shares  
 Small Cap Equity ETF', 'i': 'Equity', 'm': 10425344}, {'s': 'OVT', 'n': 'Overlay  
 Shares Short Term Bond ETF', 'i': 'Fixed Income', 'm': 64409600}, {'s': 'OWNS',  
 'n': 'CCM Affordable Housing MBS ETF', 'i': 'Fixed Income', 'm': 114959680},  
 {'s': 'PAAA', 'n': 'PGIM AAA CLO ETF', 'i': 'Fixed Income', 'm': 154860700},  
 {'s': 'PAB', 'n': 'PGIM Active Aggregate Bond ETF', 'i': 'Fixed Income', 'm':  
 43056300}, {'s': 'PABD', 'n': 'iShares Paris-Aligned Climate MSCI World ex USA  
 ETF', 'i': 'Equity', 'm': 52924536}, {'s': 'PABU', 'n': 'iShares Paris-Aligned  
 Climate MSCI USA ETF', 'i': 'Equity', 'm': 1736386400}, {'s': 'PALC', 'n':  
 'Pacer Lunt Large Cap Multi-Factor Alternator ETF', 'i': 'Equity', 'm':  
 307106300}, {'s': 'PALL', 'n': 'abrdn Physical Palladium Shares ETF', 'i':  
 'Commodity', 'm': 237218800}, {'s': 'PAMC', 'n': 'Pacer Lunt MidCap Multi-Factor  
 Alternator ETF', 'i': 'Equity', 'm': 55579250}, {'s': 'PAPI', 'n': 'Parametric  
 Equity Premium Income ETF', 'i': 'Equity', 'm': 41028500}, {'s': 'PAPR', 'n':  
 'Innovator U.S. Equity Power Buffer ETF - April', 'i': 'Equity', 'm':  
 863782500}, {'s': 'PAUG', 'n': 'Innovator U.S. Equity Power Buffer ETF -  
 August', 'i': 'Equity', 'm': 755923260}, {'s': 'PAVE', 'n': 'Global X U.S.  
 Infrastructure Development ETF', 'i': 'Equity', 'm': 7514841000}, {'s': 'PAWZ',  
 'n': 'ProShares Pet Care ETF', 'i': 'Equity', 'm': 68784290}, {'s': 'PBAP', 'n':  
 'PGIM US Large-Cap Buffer 20 ETF - April', 'i': 'Equity', 'm': 4980025}, {'s':  
 'PBD', 'n': 'Invesco Global Clean Energy ETF', 'i': 'Equity', 'm': 118973250},  
 {'s': 'PBDC', 'n': 'Putnam BDC Income ETF', 'i': 'Equity', 'm': 74608560}, {'s':  
 'PBE', 'n': 'Invesco Biotechnology & Genome ETF', 'i': 'Equity', 'm':  
 237701220}, {'s': 'PBFB', 'n': 'PGIM US Large-Cap Buffer 20 ETF - February',  
 'i': 'Equity', 'm': 3612377.2}, {'s': 'PBJ', 'n': 'Invesco Food & Beverage ETF',  
 'i': 'Equity', 'm': 132289940}, {'s': 'PBJA', 'n': 'PGIM US Large-Cap Buffer 20  
 ETF - January', 'i': 'Equity', 'm': 2598026}, {'s': 'PBL', 'n': 'PGIM Portfolio  
 Ballast ETF', 'i': 'Asset Allocation', 'm': 28896660}, {'s': 'PBMR', 'n': 'PGIM  
 US Large-Cap Buffer 20 ETF - March', 'i': 'Equity', 'm': 4550785.5}, {'s':  
 'PBP', 'n': 'Invesco S&P 500 BuyWrite ETF', 'i': 'Equity', 'm': 94416000}, {'s':  
 'PBTP', 'n': 'Invesco 0-5 Yr US TIPS ETF', 'i': 'Fixed Income', 'm': 63522884},  
 {'s': 'PBUS', 'n': 'Invesco MSCI USA ETF', 'i': 'Equity', 'm': 4603505700},  
 {'s': 'PBW', 'n': 'Invesco WilderHill Clean Energy ETF', 'i': 'Equity', 'm':  
 333285820}, {'s': 'PCCE', 'n': 'Polen Capital China Growth', 'i': 'Equity', 'm':  
 1475808.2}, {'s': 'PCEF', 'n': 'Invesco CEF Income Composite ETF', 'i': 'Asset  
 Allocation', 'm': 743080260}, {'s': 'PCGG', 'n': 'Polen Capital Global Growth  
 ETF', 'i': 'Equity', 'm': 88284500}, {'s': 'PCIG', 'n': 'Polen Capital  
 International Growth', 'i': 'Equity', 'm': 24633112}, {'s': 'PCRB', 'n': 'Putnam  
 ESG Core Bond ETF', 'i': 'Fixed Income', 'm': 545435100}, {'s': 'PCY', 'n':  
 'Invesco Emerging Markets Sovereign Debt ETF', 'i': 'Fixed Income', 'm':  
 1479139200}, {'s': 'PDBA', 'n': 'Invesco Agriculture Commodity Strategy No K-1

ETF', 'i': 'Commodity', 'm': 30857586}, {'s': 'PDBC', 'n': 'Invesco Optimum Yield Diversified Commodity Strategy No K-1 ETF', 'i': 'Commodity', 'm': 5042083000}, {'s': 'PDEC', 'n': 'Innovator U.S. Equity Power Buffer ETF - December', 'i': 'Equity', 'm': 839233200}, {'s': 'PDN', 'n': 'Invesco FTSE RAFI Developed Markets ex-US Small-Mid ETF', 'i': 'Equity', 'm': 508205100}, {'s': 'PDP', 'n': 'Invesco Dorsey Wright Momentum ETF', 'i': 'Equity', 'm': 1244117000}, {'s': 'PEJ', 'n': 'Invesco Leisure and Entertainment ETF', 'i': 'Equity', 'm': 281505440}, {'s': 'PEMX', 'n': 'Putnam Emerging Markets ex-China ETF', 'i': 'Equity', 'm': 7623910.5}, {'s': 'PEX', 'n': 'ProShares Global Listed Private Equity ETF', 'i': 'Equity', 'm': 9659195}, {'s': 'PEXL', 'n': 'Pacer US Export Leaders ETF', 'i': 'Equity', 'm': 63457810}, {'s': 'PEY', 'n': 'Invesco High Yield Equity Dividend Achievers ETF', 'i': 'Equity', 'm': 1183038500}, {'s': 'PEZ', 'n': 'Invesco Dorsey Wright Consumer Cyclical Momentum ETF', 'i': 'Equity', 'm': 57557430}, {'s': 'PFEB', 'n': 'Innovator U.S. Equity Power Buffer ETF - February', 'i': 'Equity', 'm': 759265660}, {'s': 'PFF', 'n': 'iShares Preferred & Income Securities ETF', 'i': 'Fixed Income', 'm': 14510193000}, {'s': 'PFFA', 'n': 'Virtus InfraCap U.S. Preferred Stock ETF', 'i': 'Fixed Income', 'm': 917462800}, {'s': 'PFFD', 'n': 'Global X U.S. Preferred ETF', 'i': 'Fixed Income', 'm': 2340664600}, {'s': 'PFFR', 'n': 'InfraCap REIT Preferred ETF', 'i': 'Fixed Income', 'm': 81981070}, {'s': 'PFFV', 'n': 'Global X Variable Rate Preferred ETF', 'i': 'Fixed Income', 'm': 244983200}, {'s': 'PFI', 'n': 'Invesco Dorsey Wright Financial Momentum ETF', 'i': 'Equity', 'm': 55232200}, {'s': 'PFIG', 'n': 'Invesco Fundamental Investment Grade Corporate Bond ETF', 'i': 'Fixed Income', 'm': 52042500}, {'s': 'PFIH', 'n': 'Simplify Interest Rate Hedge ETF', 'i': 'Alternatives', 'm': 152796050}, {'s': 'PFLD', 'n': 'AAM Low Duration Preferred and Income Securities ETF', 'i': 'Fixed Income', 'm': 265216770}, {'s': 'PFM', 'n': 'Invesco Dividend Achievers ETF', 'i': 'Equity', 'm': 645049860}, {'s': 'PFRL', 'n': 'PGIM Floating Rate Income ETF', 'i': 'Fixed Income', 'm': 63247500}, {'s': 'PFUT', 'n': 'Putnam Sustainable Future ETF', 'i': 'Equity', 'm': 241863660}, {'s': 'PFXF', 'n': 'VanEck Preferred Securities ex Financials ETF', 'i': 'Fixed Income', 'm': 1601662800}, {'s': 'PGF', 'n': 'Invesco Financial Preferred ETF', 'i': 'Fixed Income', 'm': 904419000}, {'s': 'PGHY', 'n': 'Invesco Global ex-US High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 133999700}, {'s': 'PGJ', 'n': 'Invesco Golden Dragon China ETF', 'i': 'Equity', 'm': 153457700}, {'s': 'PGR0', 'n': 'Putnam Focused Large Cap Growth ETF', 'i': 'Equity', 'm': 59862148}, {'s': 'PGX', 'n': 'Invesco Preferred ETF', 'i': 'Fixed Income', 'm': 4330480600}, {'s': 'PHB', 'n': 'Invesco Fundamental High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 635166000}, {'s': 'PHDG', 'n': 'Invesco S&P 500 Downside Hedged ETF', 'i': 'Equity', 'm': 116374400}, {'s': 'PHEQ', 'n': 'Parametric Hedged Equity ETF', 'i': 'Equity', 'm': 36558000}, {'s': 'PHO', 'n': 'Invesco Water Resources ETF', 'i': 'Equity', 'm': 2062941000}, {'s': 'PHYD', 'n': 'Putnam ESG High Yield ETF', 'i': 'Fixed Income', 'm': 126839900}, {'s': 'PHYL', 'n': 'PGIM Active High Yield Bond ETF', 'i': 'Fixed Income', 'm': 126710200}, {'s': 'PHYS', 'n': 'Sprott Physical Gold Trust', 'i': 'Commodity', 'm': 7094734561}, {'s': 'PICB', 'n': 'Invesco International Corporate Bond ETF', 'i': 'Fixed Income', 'm': 123944050}, {'s': 'PICK', 'n': 'iShares MSCI Global Metals & Mining Producers ETF', 'i': 'Equity', 'm': 1171594500}, {'s': 'PID', 'n': 'Invesco International

Dividend Achievers ETF', 'i': 'Equity', 'm': 903152260}, {'s': 'PIE', 'n':  
 'Invesco Dorsey Wright Emerging Markets Momentum ETF', 'i': 'Equity', 'm':  
 134950000}, {'s': 'PIFI', 'n': 'ClearShares Piton Intermediate Fixed Income  
 ETF', 'i': 'Fixed Income', 'm': 95058070}, {'s': 'PILL', 'n': 'Direxion Daily  
 Pharmaceutical & Medical Bull 3X Shares', 'i': 'Equity', 'm': 13349607}, {'s':  
 'PIN', 'n': 'Invesco India ETF', 'i': 'Equity', 'm': 243261000}, {'s': 'PINK',  
 'n': 'Simplify Health Care ETF', 'i': 'Equity', 'm': 134434530}, {'s': 'PIO',  
 'n': 'Invesco Global Water ETF', 'i': 'Equity', 'm': 287026200}, {'s': 'PIT',  
 'n': 'VanEck Commodity Strategy ETF', 'i': 'Commodity', 'm': 25140300}, {'s':  
 'PIZ', 'n': 'Invesco Dorsey Wright Developed Markets Momentum ETF', 'i':  
 'Equity', 'm': 124819500}, {'s': 'PJAN', 'n': 'Innovator U.S. Equity Power  
 Buffer ETF - January', 'i': 'Equity', 'm': 1175919700}, {'s': 'PJBF', 'n': 'PGIM  
 Jennison Better Future ETF', 'i': 'Equity', 'm': 12020400}, {'s': 'PJFG', 'n':  
 'PGIM Jennison Focused Growth ETF', 'i': 'Equity', 'm': 81602730}, {'s': 'PJFM',  
 'n': 'PGIM Jennison Focused Mid-Cap ETF', 'i': 'Equity', 'm': 10937850}, {'s':  
 'PJFV', 'n': 'PGIM Jennison Focused Value ETF', 'i': 'Equity', 'm': 13514760},  
 {'s': 'PJIO', 'n': 'PGIM Jennison International Opportunities ETF', 'i':  
 'Equity', 'm': 10804400}, {'s': 'PJP', 'n': 'Invesco Pharmaceuticals ETF', 'i':  
 'Equity', 'm': 270639170}, {'s': 'PJUL', 'n': 'Innovator U.S. Equity Power  
 Buffer ETF - July', 'i': 'Equity', 'm': 771333760}, {'s': 'PJUN', 'n':  
 'Innovator U.S. Equity Power Buffer ETF - June', 'i': 'Equity', 'm': 439281570},  
 {'s': 'PKB', 'n': 'Invesco Building & Construction ETF', 'i': 'Equity', 'm':  
 291996770}, {'s': 'PKW', 'n': 'Invesco Buyback Achievers ETF', 'i': 'Equity',  
 'm': 1115194200}, {'s': 'PLDR', 'n': 'Putnam Sustainable Leaders ETF', 'i':  
 'Equity', 'm': 485764640}, {'s': 'PLTM', 'n': 'GraniteShares Platinum Trust',  
 'i': 'Commodity', 'm': 40188600}, {'s': 'PMAR', 'n': 'Innovator U.S. Equity  
 Power Buffer ETF - March', 'i': 'Equity', 'm': 690520770}, {'s': 'PMAY', 'n':  
 'Innovator U.S. Equity Power Buffer ETF - May', 'i': 'Equity', 'm': 419893700},  
 {'s': 'PNOV', 'n': 'Innovator U.S. Equity Power Buffer ETF - November', 'i':  
 'Equity', 'm': 765540900}, {'s': 'PNQI', 'n': 'Invesco NASDAQ Internet ETF',  
 'i': 'Equity', 'm': 758926100}, {'s': 'POCT', 'n': 'Innovator U.S. Equity Power  
 Buffer ETF - October', 'i': 'Equity', 'm': 720745300}, {'s': 'POWA', 'n':  
 'Invesco Bloomberg Pricing Power ETF', 'i': 'Equity', 'm': 198149150}, {'s':  
 'PP', 'n': 'Meet Kevin Pricing Power ETF', 'i': 'Equity', 'm': 39382500}, {'s':  
 'PPA', 'n': 'Invesco Aerospace & Defense ETF', 'i': 'Equity', 'm': 3012076800},  
 {'s': 'PPEM', 'n': 'Putnam PanAgora ESG Emerging Markets Equity ETF', 'i':  
 'Equity', 'm': 25462936}, {'s': 'PPH', 'n': 'VanEck Pharmaceutical ETF', 'i':  
 'Equity', 'm': 519773980}, {'s': 'PPI', 'n': 'AXS Astoria Inflation Sensitive  
 ETF', 'i': 'Asset Allocation', 'm': 62909388}, {'s': 'PPIE', 'n': 'Putnam  
 PanAgora ESG International Equity ETF', 'i': 'Equity', 'm': 159856350}, {'s':  
 'PPLT', 'n': 'abrdn Physical Platinum Shares ETF', 'i': 'Commodity', 'm':  
 1003228800}, {'s': 'PPTY', 'n': 'US Diversified Real Estate ETF', 'i': 'Equity',  
 'm': 125162500}, {'s': 'PQDI', 'n': 'Principal Spectrum Tax-Advantaged Dividend  
 Active ETF', 'i': 'Fixed Income', 'm': 23846698}, {'s': 'PRAE', 'n': 'PlanRock  
 Alternative Growth ETF', 'i': 'Asset Allocation', 'm': 186800530}, {'s': 'PRAY',  
 'n': 'FIS Christian Stock Fund', 'i': 'Equity', 'm': 53316508}, {'s': 'PREF',  
 'n': 'Principal Spectrum Preferred Secs Active ETF', 'i': 'Fixed Income', 'm':  
 843415100}, {'s': 'PRF', 'n': 'Invesco FTSE RAFI US 1000 ETF', 'i': 'Equity',

'm': 6948420600}, {'s': 'PRFD', 'n': 'PIMCO Preferred and Capital Securities  
 Active ETF', 'i': 'Fixed Income', 'm': 84929400}, {'s': 'PRFZ', 'n': 'Invesco  
 FTSE RAFI US 1500 Small-Mid ETF', 'i': 'Equity', 'm': 2248259300}, {'s': 'PRMN',  
 'n': 'PlanRock Market Neutral Income ETF', 'i': 'Alternatives', 'm': 66378804},  
 {'s': 'PRN', 'n': 'Invesco Dorsey Wright Industrials Momentum ETF', 'i':  
 'Equity', 'm': 228306430}, {'s': 'PRNT', 'n': '3D Printing ETF', 'i': 'Equity',  
 'm': 125019000}, {'s': 'PSC', 'n': 'Principal U.S. Small-Cap ETF', 'i':  
 'Equity', 'm': 507307900}, {'s': 'PSCC', 'n': 'Invesco S&P SmallCap Consumer  
 Staples ETF', 'i': 'Equity', 'm': 77926200}, {'s': 'PSCD', 'n': 'Invesco S&P  
 SmallCap Consumer Discretionary ETF', 'i': 'Equity', 'm': 40451200}, {'s':  
 'PSCE', 'n': 'Invesco S&P SmallCap Energy ETF', 'i': 'Equity', 'm': 248977420},  
 {'s': 'PSCF', 'n': 'Invesco S&P SmallCap Financials ETF', 'i': 'Equity', 'm':  
 18827200}, {'s': 'PSCH', 'n': 'Invesco S&P SmallCap Health Care ETF', 'i':  
 'Equity', 'm': 213693920}, {'s': 'PSCI', 'n': 'Invesco S&P SmallCap Industrials  
 ETF', 'i': 'Equity', 'm': 192053150}, {'s': 'PSCJ', 'n': 'Pacer Swan SOS  
 Conservative (July) ETF', 'i': 'Equity', 'm': 14093250}, {'s': 'PSCM', 'n':  
 'Invesco S&P SmallCap Materials ETF', 'i': 'Equity', 'm': 15832530}, {'s':  
 'PSCQ', 'n': 'Pacer Swan SOS Conservative (October) ETF', 'i': 'Equity', 'm':  
 8780555}, {'s': 'PSCT', 'n': 'Invesco S&P SmallCap Information Technology ETF',  
 'i': 'Equity', 'm': 314834900}, {'s': 'PSCU', 'n': 'Invesco S&P SmallCap  
 Utilities & Communication Services ETF', 'i': 'Equity', 'm': 14516530}, {'s':  
 'PSCW', 'n': 'Pacer Swan SOS Conservative (April) ETF', 'i': 'Equity', 'm':  
 13633250}, {'s': 'PSCX', 'n': 'Pacer Swan SOS Conservative (January) ETF', 'i':  
 'Equity', 'm': 20467840}, {'s': 'PSDM', 'n': 'PGIM Short Duration Multi-Sector  
 Bond ETF', 'i': 'Fixed Income', 'm': 35142800}, {'s': 'PSEP', 'n': 'Innovator  
 U.S. Equity Power Buffer ETF - September', 'i': 'Equity', 'm': 706092800}, {'s':  
 'PSET', 'n': 'Principal Quality ETF', 'i': 'Equity', 'm': 50878116}, {'s':  
 'PSFD', 'n': 'Pacer Swan SOS Flex (January) ETF', 'i': 'Equity', 'm': 44087396},  
 {'s': 'PSFF', 'n': 'Pacer Swan SOS Fund of Funds ETF', 'i': 'Equity', 'm':  
 301189280}, {'s': 'PSFJ', 'n': 'Pacer Swan SOS Flex (July) ETF', 'i': 'Equity',  
 'm': 26670000}, {'s': 'PSFM', 'n': 'Pacer Swan SOS Flex (April) ETF', 'i':  
 'Equity', 'm': 21448000}, {'s': 'PSFO', 'n': 'Pacer Swan SOS Flex (October)  
 ETF', 'i': 'Equity', 'm': 15523735}, {'s': 'PSH', 'n': 'PGIM Short Duration High  
 Yield ETF', 'i': 'Fixed Income', 'm': 25086000}, {'s': 'PSI', 'n': 'Invesco  
 Semiconductors ETF', 'i': 'Equity', 'm': 812918900}, {'s': 'PSIL', 'n':  
 'AdvisorShares Psychedelics ETF', 'i': 'Equity', 'm': 7197255}, {'s': 'PSK',  
 'n': 'SPDR ICE Preferred Securities ETF', 'i': 'Fixed Income', 'm': 792435140},  
 {'s': 'PSL', 'n': 'Invesco Dorsey Wright Consumer Staples Momentum ETF', 'i':  
 'Equity', 'm': 83781930}, {'s': 'PSMD', 'n': 'Pacer Swan SOS Moderate (January)  
 ETF', 'i': 'Equity', 'm': 73638770}, {'s': 'PSMJ', 'n': 'Pacer Swan SOS Moderate  
 (July) ETF', 'i': 'Equity', 'm': 59642764}, {'s': 'PSMO', 'n': 'Pacer Swan SOS  
 Moderate (October) ETF', 'i': 'Equity', 'm': 42461576}, {'s': 'PSMR', 'n':  
 'Pacer Swan SOS Moderate (April) ETF', 'i': 'Equity', 'm': 52725750}, {'s':  
 'PSP', 'n': 'Invesco Global Listed Private Equity ETF', 'i': 'Equity', 'm':  
 239402510}, {'s': 'PSQ', 'n': 'ProShares Short QQQ', 'i': 'Equity', 'm':  
 547888600}, {'s': 'PSR', 'n': 'Invesco Active U.S. Real Estate Fund', 'i':  
 'Equity', 'm': 66755790}, {'s': 'PST', 'n': 'ProShares UltraShort 7-10 Year  
 Treasury', 'i': 'Fixed Income', 'm': 18439724}, {'s': 'PSTP', 'n': 'Innovator

Power Buffer Step-Up Strategy ETF', 'i': 'Equity', 'm': 85936500}, {'s': 'PSWD', 'n': 'Xtrackers Cybersecurity Select Equity ETF', 'i': 'Equity', 'm': 6075030.5}, {'s': 'PTBD', 'n': 'Pacer Trendpilot US Bond ETF', 'i': 'Fixed Income', 'm': 179255790}, {'s': 'PTEC', 'n': 'Global X PropTech ETF', 'i': 'Equity', 'm': 3057527}, {'s': 'PTEU', 'n': 'Pacer Trendpilot European Index ETF', 'i': 'Equity', 'm': 40486000}, {'s': 'PTF', 'n': 'Invesco Dorsey Wright Technology Momentum ETF', 'i': 'Equity', 'm': 398374000}, {'s': 'PTH', 'n': 'Invesco Dorsey Wright Healthcare Momentum ETF', 'i': 'Equity', 'm': 148179420}, {'s': 'PTIN', 'n': 'Pacer Trendpilot International ETF', 'i': 'Equity', 'm': 152844140}, {'s': 'PTL', 'n': 'Inspire 500 ETF', 'i': 'Equity', 'm': 104307000}, {'s': 'PTLC', 'n': 'Pacer Trendpilot US Large Cap ETF', 'i': 'Equity', 'm': 2692596000}, {'s': 'PTMC', 'n': 'Pacer Trendpilot US Mid Cap ETF', 'i': 'Equity', 'm': 395888000}, {'s': 'PTNQ', 'n': 'Pacer Trendpilot 100 ETF', 'i': 'Equity', 'm': 1204875000}, {'s': 'PTRB', 'n': 'PGIM Total Return Bond ETF', 'i': 'Fixed Income', 'm': 211036800}, {'s': 'PUI', 'n': 'Invesco Dorsey Wright Utilities Momentum ETF', 'i': 'Equity', 'm': 37751100}, {'s': 'PULS', 'n': 'PGIM Ultra Short Bond ETF', 'i': 'Fixed Income', 'm': 6344493600}, {'s': 'PULT', 'n': 'Putnam ESG Ultra Short ETF', 'i': 'Fixed Income', 'm': 81639816}, {'s': 'PUTD', 'n': 'Cboe(R) Validus S&P 500(R) Dynamic PutWrite Index ETF', 'i': 'Equity', 'm': 31705538}, {'s': 'PUTW', 'n': 'WisdomTree PutWrite Strategy Fund', 'i': 'Equity', 'm': 97725540}, {'s': 'PVAL', 'n': 'Putnam Focused Large Cap Value ETF', 'i': 'Equity', 'm': 437326850}, {'s': 'PVI', 'n': 'Invesco Floating Rate Municipal Income ETF', 'i': 'Fixed Income', 'm': 38492700}, {'s': 'PWB', 'n': 'Invesco Large Cap Growth ETF', 'i': 'Equity', 'm': 845614200}, {'s': 'PWER', 'n': 'Macquarie Energy Transition ETF', 'i': 'Equity', 'm': 5854800}, {'s': 'PWS', 'n': 'Pacer WealthShield ETF', 'i': 'Asset Allocation', 'm': 20356000}, {'s': 'PWV', 'n': 'Invesco Large Cap Value ETF', 'i': 'Equity', 'm': 887756350}, {'s': 'PWZ', 'n': 'Invesco California AMT-Free Municipal Bond ETF', 'i': 'Fixed Income', 'm': 837325500}, {'s': 'PXE', 'n': 'Invesco Energy Exploration & Production ETF', 'i': 'Equity', 'm': 155327950}, {'s': 'PXF', 'n': 'Invesco FTSE RAFI Developed Markets ex-U.S. ETF', 'i': 'Equity', 'm': 1696334200}, {'s': 'PXH', 'n': 'Invesco FTSE RAFI Emerging Markets ETF', 'i': 'Equity', 'm': 1220960000}, {'s': 'PXI', 'n': 'Invesco Dorsey Wright Energy Momentum ETF', 'i': 'Equity', 'm': 76407510}, {'s': 'PXJ', 'n': 'Invesco Oil & Gas Services ETF', 'i': 'Equity', 'm': 94618640}, {'s': 'PY', 'n': 'Principal Value ETF', 'i': 'Equity', 'm': 61373070}, {'s': 'PYLD', 'n': 'PIMCO Multisector Bond Active Exchange-Traded Fund PIMCO Multisector Bond Active Exchange-Traded Fund', 'i': 'Fixed Income', 'm': 631000000}, {'s': 'PYPY', 'n': 'YieldMax PYPL Option Income Strategy ETF', 'i': 'Equity', 'm': 15317600}, {'s': 'PYZ', 'n': 'Invesco Dorsey Wright Basic Materials Momentum ETF', 'i': 'Equity', 'm': 68457000}, {'s': 'PZA', 'n': 'Invesco National AMT-Free Municipal Bond ETF', 'i': 'Fixed Income', 'm': 2740754400}, {'s': 'PZT', 'n': 'Invesco New York AMT-Free Municipal Bond ETF', 'i': 'Fixed Income', 'm': 93997500}, {'s': 'QABA', 'n': 'First Trust NASDAQ ABA Community Bank Index Fund', 'i': 'Equity', 'm': 71712380}, {'s': 'QAI', 'n': 'IQ Hedge Multi-Strategy Tracker ETF', 'i': 'Alternatives', 'm': 571663300}, {'s': 'QARP', 'n': 'Xtrackers Russell 1000 US Quality at a Reasonable Price ETF', 'i': 'Equity', 'm': 65375148}, {'s': 'QAT', 'n': 'iShares MSCI Qatar ETF', 'i': 'Equity', 'm': 80350730}, {'s': 'QCLN', 'n': 'First Trust

Nasdaq Clean Edge Green Energy Index Fund', 'i': 'Equity', 'm': 727753100},  
 {'s': 'QCLR', 'n': 'Global X NASDAQ 100 Collar 95-110 ETF', 'i': 'Equity', 'm':  
 2562046.2}, {'s': 'QCON', 'n': 'American Century Quality Convertible Securities  
 ETF', 'i': 'Fixed Income', 'm': 41479384}, {'s': 'QDEC', 'n': 'FT Vest  
 Nasdaq-100 Buffer ETF - December', 'i': 'Equity', 'm': 392742050}, {'s': 'QDEF',  
 'n': 'FlexShares Quality Dividend Defensive Index Fund FlexShares Quality  
 Dividend Defensive Index Fund', 'i': 'Equity', 'm': 352995940}, {'s': 'QDF',  
 'n': 'FlexShares Quality Dividend Index Fund FlexShares Quality Dividend Index  
 Fund', 'i': 'Equity', 'm': 1715158500}, {'s': 'QDIV', 'n': 'Global X S&P 500  
 Quality Dividend ETF', 'i': 'Equity', 'm': 24497196}, {'s': 'QDPL', 'n': 'Pacer  
 Metaurus US Large Cap Dividend Multiplier 400 ETF', 'i': 'Asset Allocation',  
 'm': 330039420}, {'s': 'QDTE', 'n': 'Roundhill N-100 ODTE Covered Call Strategy  
 ETF', 'i': 'Equity', 'm': 12334086}, {'s': 'QEFA', 'n': 'SPDR MSCI EAFE  
 StrategicFactors ETF', 'i': 'Equity', 'm': 945034800}, {'s': 'QEMM', 'n': 'SPDR  
 MSCI Emerging Markets StrategicFactors ETF', 'i': 'Equity', 'm': 45185076},  
 {'s': 'QFLR', 'n': 'Innovator Nasdaq-100 Managed Floor ETF', 'i': 'Equity', 'm':  
 87776700}, {'s': 'QGR0', 'n': 'American Century U.S. Quality Growth ETF', 'i':  
 'Equity', 'm': 884894700}, {'s': 'QGRW', 'n': 'WisdomTree U.S. Quality Growth  
 Fund', 'i': 'Equity', 'm': 362043000}, {'s': 'QID', 'n': 'ProShares UltraShort  
 QQQ', 'i': 'Equity', 'm': 293349570}, {'s': 'QINT', 'n': 'American Century  
 Quality Diversified International ETF', 'i': 'Equity', 'm': 224121170}, {'s':  
 'QIS', 'n': 'Simplify Multi-QIS Alternative ETF', 'i': 'Alternatives', 'm':  
 114984800}, {'s': 'QJUN', 'n': 'FT Vest Nasdaq-100 Buffer ETF - June', 'i':  
 'Equity', 'm': 324726340}, {'s': 'QLC', 'n': 'FlexShares US Quality Large Cap  
 Index Fund US Quality Large Cap Index Fund', 'i': 'Equity', 'm': 196629920},  
 {'s': 'QLD', 'n': 'ProShares Ultra QQQ', 'i': 'Equity', 'm': 6174568400}, {'s':  
 'QLTA', 'n': 'iShares Aaa-A Rated Corporate Bond ETF', 'i': 'Fixed Income', 'm':  
 1047453500}, {'s': 'QLTY', 'n': 'GMO U.S. Quality ETF', 'i': 'Equity', 'm':  
 460500030}, {'s': 'QLV', 'n': 'FlexShares US Quality Low Volatility Index Fund  
 FlexShares US Quality Low Volatility Index Fund', 'i': 'Equity', 'm':  
 158213280}, {'s': 'QLVD', 'n': 'FlexShares Developed Markets ex-US Quality Low  
 Volatility Index Fund FlexShares Developed Markets ex-US Qlt Low Volatl Idx Fd',  
 'i': 'Equity', 'm': 46844490}, {'s': 'QLVE', 'n': 'FlexShares Emerging Markets  
 Quality Low Volatility Index Fund FlexShares Emerging Markets Quality Low  
 Volatility Index Fd', 'i': 'Equity', 'm': 12147424}, {'s': 'QMAR', 'n': 'FT Vest  
 Nasdaq-100 Buffer ETF - March', 'i': 'Equity', 'm': 412718560}, {'s': 'QMID',  
 'n': 'WisdomTree U.S. MidCap Quality Growth Fund', 'i': 'Equity', 'm': 4065495},  
 {'s': 'QMOM', 'n': 'Alpha Architect U.S. Quantitative Momentum ETF', 'i':  
 'Equity', 'm': 214606800}, {'s': 'QOWZ', 'n': 'Invesco Nasdaq Free Cash Flow  
 Achievers ETF', 'i': 'Equity', 'm': 2853128.5}, {'s': 'QPFF', 'n': 'American  
 Century Quality Preferred ETF', 'i': 'Fixed Income', 'm': 88557900}, {'s':  
 'QPX', 'n': 'AdvisorShares Q Dynamic Growth ETF', 'i': 'Asset Allocation', 'm':  
 24726330}, {'s': 'QQEW', 'n': 'First Trust Nasdaq-100 Equal Weighted Index  
 Fund', 'i': 'Equity', 'm': 2152982500}, {'s': 'QQH', 'n': 'HCM Defender 100  
 Index ETF', 'i': 'Equity', 'm': 430794000}, {'s': 'QQJG', 'n': 'Invesco ESG  
 NASDAQ Next Gen 100 ETF', 'i': 'Equity', 'm': 5528772}, {'s': 'QQMG', 'n':  
 'Invesco ESG NASDAQ 100 ETF', 'i': 'Equity', 'm': 39622732}, {'s': 'QQQ', 'n':  
 'Invesco QQQ Trust Series I', 'i': 'Equity', 'm': 257594430000}, {'s': 'QQQA',



'n': 'ProShares Nasdaq-100 Dorsey Wright Momentum ETF', 'i': 'Equity', 'm': 12120627}, {'s': 'QQQD', 'n': 'Direxion Daily Concentrated Qs Bear 1X Shares', 'i': 'Equity', 'm': 4806704}, {'s': 'QQQE', 'n': 'Direxion NASDAQ-100 Equal Weighted Index Shares', 'i': 'Equity', 'm': 1229074200}, {'s': 'QQQI', 'n': 'NEOS Nasdaq 100 High Income ETF', 'i': 'Equity', 'm': 99537790}, {'s': 'QQQJ', 'n': 'Invesco NASDAQ Next Gen 100 ETF', 'i': 'Equity', 'm': 695329660}, {'s': 'QQQM', 'n': 'Invesco NASDAQ 100 ETF', 'i': 'Equity', 'm': 23377938000}, {'s': 'QQQN', 'n': 'VictoryShares Nasdaq Next 50 ETF', 'i': 'Equity', 'm': 20262130}, {'s': 'QQQS', 'n': 'Invesco NASDAQ Future Gen 200 ETF', 'i': 'Equity', 'm': 7831226}, {'s': 'QQQU', 'n': 'Direxion Daily Concentrated Qs Bull 2X Shares', 'i': 'Equity', 'm': 4889125.5}, {'s': 'QQQY', 'n': 'Defiance Nasdaq 100 Enhanced Options Income ETF', 'i': 'Equity', 'm': 278259680}, {'s': 'QQXT', 'n': 'First Trust Nasdaq-100 Ex-Technology Sector Index Fund', 'i': 'Equity', 'm': 141841780}, {'s': 'QRFT', 'n': 'QRAFT AI-Enhanced U.S. Large Cap ETF', 'i': 'Equity', 'm': 8393923}, {'s': 'QRMI', 'n': 'Global X NASDAQ 100 Risk Managed Income ETF', 'i': 'Equity', 'm': 13133383}, {'s': 'QSMI', 'n': 'WisdomTree U.S. SmallCap Quality Growth Fund', 'i': 'Equity', 'm': 1902825}, {'s': 'QSPT', 'n': 'FT Vest Nasdaq-100 Buffer ETF - September', 'i': 'Equity', 'm': 271803400}, {'s': 'QSWN', 'n': 'Amplify BlackSwan Tech & Treasury ETF', 'i': 'Asset Allocation', 'm': 2514662.5}, {'s': 'QTAP', 'n': 'Innovator Growth Accelerated Plus ETF - April', 'i': 'Equity', 'm': 8190000}, {'s': 'QTEC', 'n': 'First Trust NASDAQ-100 Technology Sector Index Fund', 'i': 'Equity', 'm': 4015393000}, {'s': 'QTJA', 'n': 'Innovator Growth Accelerated Plus ETF - January', 'i': 'Equity', 'm': 28710322}, {'s': 'QTJL', 'n': 'Innovator Growth Accelerated Plus ETF - July', 'i': 'Equity', 'm': 12529000}, {'s': 'QTOC', 'n': 'Innovator Growth Accelerated Plus ETF - October', 'i': 'Equity', 'm': 12031290}, {'s': 'QTR', 'n': 'Global X NASDAQ 100 Tail Risk ETF', 'i': 'Equity', 'm': 2527195.5}, {'s': 'QTUM', 'n': 'Defiance Quantum ETF', 'i': 'Equity', 'm': 251090000}, {'s': 'QUAL', 'n': 'iShares MSCI USA Quality Factor ETF', 'i': 'Equity', 'm': 42496205000}, {'s': 'QUS', 'n': 'SPDR MSCI USA StrategicFactors ETF', 'i': 'Equity', 'm': 1271000800}, {'s': 'QUVU', 'n': 'Hartford Quality Value ETF', 'i': 'Equity', 'm': 169736380}, {'s': 'QVAL', 'n': 'Alpha Architect US Quantitative Value ETF', 'i': 'Equity', 'm': 339349470}, {'s': 'QVML', 'n': 'Invesco S&P 500 QVM Multi-factor ETF', 'i': 'Equity', 'm': 944725000}, {'s': 'QVMM', 'n': 'Invesco S&P MidCap 400 QVM Multi-factor ETF', 'i': 'Equity', 'm': 299350500}, {'s': 'QVMS', 'n': 'Invesco S&P SmallCap 600 QVM Multi-factor ETF', 'i': 'Equity', 'm': 180106770}, {'s': 'QVOY', 'n': 'Q3 All-Season Active Rotation ETF', 'i': 'Asset Allocation', 'm': 85260000}, {'s': 'QWLD', 'n': 'SPDR MSCI World StrategicFactors ETF', 'i': 'Equity', 'm': 111433060}, {'s': 'QYLD', 'n': 'Global X NASDAQ 100 Covered Call ETF', 'i': 'Equity', 'm': 8218623000}, {'s': 'QYLE', 'n': 'Global X Nasdaq 100 ESG Covered Call ETF', 'i': 'Equity', 'm': 2430493}, {'s': 'QYLG', 'n': 'Global X Nasdaq 100 Covered Call & Growth ETF', 'i': 'Equity', 'm': 114841390}, {'s': 'RAAX', 'n': 'VanEck Inflation Allocation ETF', 'i': 'Asset Allocation', 'm': 82852500}, {'s': 'RAFE', 'n': 'PIMCO RAFI ESG U.S. ETF', 'i': 'Equity', 'm': 49807500}, {'s': 'RATE', 'n': 'Global X Interest Rate Hedge ETF', 'i': 'Alternatives', 'm': 2078237.6}, {'s': 'RAVI', 'n': 'FlexShares Ultra-Short Income Fund', 'i': 'Fixed Income', 'm': 1139044400}, {'s': 'RAYC',

'n': 'Rayliant Quantamental China Equity ETF', 'i': 'Equity', 'm': 34607856},  
{'s': 'RAYD', 'n': 'Rayliant Quantitative Developed Market Equity ETF', 'i':  
'Equity', 'm': 47643330}, {'s': 'RAYE', 'n': 'Rayliant Quantamental Emerging  
Market ex-China Equity ETF', 'i': 'Equity', 'm': 47685584}, {'s': 'RAYJ', 'n':  
'Rayliant SMDAM Japan Equity ETF', 'i': 'Equity', 'm': 21682634}, {'s': 'RAYS',  
'n': 'Global X Solar ETF', 'i': 'Equity', 'm': 6530215.5}, {'s': 'RBLD', 'n':  
'First Trust Alerian US NextGen Infrastructure ETF', 'i': 'Equity', 'm':  
9217023}, {'s': 'RDFI', 'n': 'Collaborative Investment Series Trust Rareview  
Dynamic Fixed Income Fund', 'i': 'Fixed Income', 'm': 35466300}, {'s': 'RDIV',  
'n': 'Invesco S&P Ultra Dividend Revenue ETF', 'i': 'Equity', 'm': 745092350},  
{'s': 'RDOG', 'n': 'ALPS REIT Dividend Dogs ETF', 'i': 'Equity', 'm': 11709750},  
{'s': 'RDVI', 'n': 'FT Vest Rising Dividend Achievers Target Income ETF', 'i':  
'Equity', 'm': 921640600}, {'s': 'RDVY', 'n': 'First Trust Rising Dividend  
Achievers ETF', 'i': 'Equity', 'm': 10241356000}, {'s': 'REAI', 'n': 'Tidal ETF  
Trust Intelligent Real Estate ETF', 'i': 'Equity', 'm': 3373860}, {'s': 'RECS',  
'n': 'Columbia Research Enhanced Core ETF', 'i': 'Equity', 'm': 462150000},  
{'s': 'REET', 'n': 'iShares Global REIT ETF', 'i': 'Equity', 'm': 3492827400},  
{'s': 'REGL', 'n': 'ProShares S&P MidCap 400 Dividend Aristocrats ETF', 'i':  
'Equity', 'm': 1547454600}, {'s': 'REIT', 'n': 'ALPS Active REIT ETF', 'i':  
'Equity', 'm': 23645850}, {'s': 'REK', 'n': 'ProShares Short Real Estate', 'i':  
'Equity', 'm': 19924746}, {'s': 'REM', 'n': 'iShares Mortgage Real Estate ETF',  
'i': 'Equity', 'm': 594781400}, {'s': 'REMX', 'n': 'VanEck Rare Earth/Strategic  
Metals ETF', 'i': 'Equity', 'm': 356981700}, {'s': 'RENW', 'n': 'Harbor Energy  
Transition Strategy ETF', 'i': 'Commodity', 'm': 21403000}, {'s': 'RETL', 'n':  
'Direxion Daily Retail Bull 3x Shares', 'i': 'Equity', 'm': 52014970}, {'s':  
'REVS', 'n': 'Columbia Research Enhanced Value ETF', 'i': 'Equity', 'm':  
40757500}, {'s': 'REW', 'n': 'ProShares UltraShort Technology', 'i': 'Equity',  
'm': 3894642.8}, {'s': 'REZ', 'n': 'iShares Residential and Multisector Real  
Estate ETF', 'i': 'Equity', 'm': 611434560}, {'s': 'RFCI', 'n': 'Riverfront  
Dynamic Core Income ETF', 'i': 'Fixed Income', 'm': 24716250}, {'s': 'RFDA',  
'n': 'RiverFront Dynamic US Dividend Advantage ETF', 'i': 'Equity', 'm':  
75180104}, {'s': 'RFDI', 'n': 'First Trust Riverfront Dynamic Developed  
International ETF', 'i': 'Equity', 'm': 127613850}, {'s': 'RFEM', 'n': 'First  
Trust Riverfront Dynamic Emerging Markets ETF', 'i': 'Equity', 'm': 37680724},  
{'s': 'RFEU', 'n': 'First Trust Riverfront Dynamic Europe ETF', 'i': 'Equity',  
'm': 9639279}, {'s': 'RFFC', 'n': 'ALPS Active Equity Opportunity ETF', 'i':  
'Equity', 'm': 23571104}, {'s': 'RFG', 'n': 'Invesco S&P Midcap 400 Pure Growth  
ETF', 'i': 'Equity', 'm': 346534980}, {'s': 'RFV', 'n': 'Invesco S&P Midcap 400  
Pure Value ETF', 'i': 'Equity', 'm': 310319600}, {'s': 'RHCBC', 'n': 'BNY Mellon  
Responsible Horizons Corporate Bond ETF', 'i': 'Fixed Income', 'm': 22444544},  
{'s': 'RHRX', 'n': 'RH Tactical Rotation ETF', 'i': 'Equity', 'm': 13197942},  
{'s': 'RHTX', 'n': 'RH Tactical Outlook ETF', 'i': 'Asset Allocation', 'm':  
9397918}, {'s': 'RIET', 'n': 'Hoya Capital High Dividend Yield ETF', 'i':  
'Equity', 'm': 60340400}, {'s': 'RIGS', 'n': 'RiverFront Strategic Income Fund',  
'i': 'Fixed Income', 'm': 101135000}, {'s': 'RINC', 'n': 'AXS Real Estate Income  
ETF', 'i': 'Equity', 'm': 46211956}, {'s': 'RINF', 'n': 'ProShares Inflation  
Expectations ETF', 'i': 'Alternatives', 'm': 20735790}, {'s': 'RING', 'n':  
'iShares MSCI Global Gold Miners ETF', 'i': 'Equity', 'm': 477905760}, {'s':

'RISN', 'n': 'Inspire Tactical Balanced ETF', 'i': 'Asset Allocation', 'm': 90183000}, {'s': 'RISR', 'n': 'FolioBeyond Alternative Income and Interest Rate Hedge ETF', 'i': 'Fixed Income', 'm': 53388480}, {'s': 'RITA', 'n': 'ETFB Green SRI REITs ETF', 'i': 'Equity', 'm': 6456030}, {'s': 'RJMG', 'n': 'FT Raymond James Multicap Growth Equity ETF', 'i': 'Equity', 'm': 7636343.5}, {'s': 'RLY', 'n': 'SPDR SSgA Multi-Asset Real Return ETF', 'i': 'Alternatives', 'm': 547679040}, {'s': 'RMIF', 'n': 'LHA Risk-Managed Income ETF', 'i': 'Fixed Income', 'm': 31327250}, {'s': 'RNEM', 'n': 'First Trust Emerging Markets Equity Select ETF', 'i': 'Equity', 'm': 18224954}, {'s': 'RNEW', 'n': 'VanEck Green Infrastructure ETF', 'i': 'Equity', 'm': 1716495}, {'s': 'RNMC', 'n': 'First Trust Mid Cap US Equity Select ETF', 'i': 'Equity', 'm': 17636914}, {'s': 'RNRG', 'n': 'Global X Renewable Energy Producers ETF', 'i': 'Equity', 'm': 38591304}, {'s': 'RNSC', 'n': 'Furst Trust Small Cap US Equity Select ETF', 'i': 'Equity', 'm': 37419356}, {'s': 'RNWZ', 'n': 'TrueShares Eagle Global Renewable Energy Income ETF', 'i': 'Equity', 'm': 2275647}, {'s': 'ROAM', 'n': 'Hartford Multifactor Emerging Markets ETF', 'i': 'Equity', 'm': 19952136}, {'s': 'ROBO', 'n': 'ROBO Global Robotics & Automation Index ETF', 'i': 'Equity', 'm': 1302772900}, {'s': 'ROBT', 'n': 'First Trust Nasdaq Artificial Intelligence & Robotics ETF', 'i': 'Equity', 'm': 530162080}, {'s': 'RODE', 'n': 'Hartford Multifactor Diversified International ETF', 'i': 'Equity', 'm': 17880850}, {'s': 'RODM', 'n': 'Hartford Multifactor Developed Markets (ex-US) ETF', 'i': 'Equity', 'm': 1152283500}, {'s': 'ROE', 'n': 'Astoria US Quality Kings ETF', 'i': 'Equity', 'm': 81512740}, {'s': 'ROIS', 'n': 'Hartford Multifactor International Small Company ETF', 'i': 'Equity', 'm': 5034470}, {'s': 'ROKT', 'n': 'SPDR S&P Kensho Final Frontiers ETF', 'i': 'Equity', 'm': 16034508}, {'s': 'ROM', 'n': 'ProShares Ultra Technology', 'i': 'Equity', 'm': 675122940}, {'s': 'ROMO', 'n': 'Strategy Shares Newfound/ReSolve Robust Momentum ETF', 'i': 'Asset Allocation', 'm': 37948000}, {'s': 'ROOF', 'n': 'IQ CBRE NextGen Real Estate ETF', 'i': 'Equity', 'm': 141889060}, {'s': 'RORO', 'n': 'ATAC US Rotation ETF', 'i': 'Asset Allocation', 'm': 11697008}, {'s': 'ROSC', 'n': 'Hartford Multifactor Small Cap ETF', 'i': 'Equity', 'm': 29897324}, {'s': 'ROUS', 'n': 'Hartford Multifactor US Equity ETF', 'i': 'Equity', 'm': 412357440}, {'s': 'ROYA', 'n': 'Tema Global Royalties ETF', 'i': 'Equity', 'm': 267785}, {'s': 'RPAR', 'n': 'RPAR Risk Parity ETF', 'i': 'Alternatives', 'm': 623210500}, {'s': 'RPG', 'n': 'Invesco S&P 500 Pure Growth ETF', 'i': 'Equity', 'm': 1561229000}, {'s': 'RPHS', 'n': 'Regents Park Hedged Market Strategy ETF', 'i': 'Equity', 'm': 58081000}, {'s': 'RPV', 'n': 'Invesco S&P 500 Pure Value ETF', 'i': 'Equity', 'm': 2040887700}, {'s': 'RSBT', 'n': 'Return Stacked Bonds & Managed Futures ETF', 'i': 'Alternatives', 'm': 58267200}, {'s': 'RSEE', 'n': 'Rareview Systematic Equity ETF', 'i': 'Equity', 'm': 48022400}, {'s': 'RSHO', 'n': 'Tema American Reshoring ETF', 'i': 'Equity', 'm': 18683984}, {'s': 'RSP', 'n': 'Invesco S&P 500 Equal Weight ETF', 'i': 'Equity', 'm': 54732538000}, {'s': 'RSPC', 'n': 'Invesco S&P 500 Equal Weight Communication Services ETF', 'i': 'Equity', 'm': 70713030}, {'s': 'RSPD', 'n': 'Invesco S&P 500 Equal Weight Consumer Discretionary ETF', 'i': 'Equity', 'm': 424044860}, {'s': 'RSPE', 'n': 'Invesco ESG S&P 500 Equal Weight ETF', 'i': 'Equity', 'm': 8759475}, {'s': 'RSPF', 'n': 'Invesco S&P 500 Equal Weight Financials ETF', 'i': 'Equity', 'm': 259345900}, {'s': 'RSPG', 'n': 'Invesco S&P 500 Equal Weight Energy ETF', 'i':

'Equity', 'm': 632389600}, {'s': 'RSPH', 'n': 'Invesco S&P 500 Equal Weight Health Care ETF', 'i': 'Equity', 'm': 983047230}, {'s': 'RSPM', 'n': 'Invesco S&P 500 Equal Weight Materials ETF', 'i': 'Equity', 'm': 294551700}, {'s': 'RSPN', 'n': 'Invesco S&P 500 Equal Weight Industrials ETF', 'i': 'Equity', 'm': 689293630}, {'s': 'RSPR', 'n': 'Invesco S&P 500 Equal Weight Real Estate ETF', 'i': 'Equity', 'm': 114292600}, {'s': 'RSPS', 'n': 'Invesco S&P 500 Equal Weight Consumer Staples ETF', 'i': 'Equity', 'm': 432362500}, {'s': 'RSPT', 'n': 'Invesco S&P 500 Equal Weight Technology ETF', 'i': 'Equity', 'm': 3945907500}, {'s': 'RSPU', 'n': 'Invesco S&P 500 Equal Weight Utilities ETF', 'i': 'Equity', 'm': 245694540}, {'s': 'RSSB', 'n': 'Return Stacked Global Stocks & Bonds ETF', 'i': 'Asset Allocation', 'm': 80059630}, {'s': 'RSST', 'n': 'Return Stacked U.S. Stocks & Managed Futures ETF', 'i': 'Alternatives', 'm': 114915736}, {'s': 'RTAI', 'n': 'Rareview Tax Advantaged Income ETF', 'i': 'Fixed Income', 'm': 18916250}, {'s': 'RTH', 'n': 'VanEck Retail ETF', 'i': 'Equity', 'm': 209120670}, {'s': 'RUFF', 'n': 'Alpha Dog ETF', 'i': 'Equity', 'm': 61132500}, {'s': 'RULE', 'n': 'Adaptive Core ETF', 'i': 'Asset Allocation', 'm': 38647076}, {'s': 'RUNN', 'n': 'Running Oak Efficient Growth ETF', 'i': 'Equity', 'm': 137889360}, {'s': 'RVER', 'n': 'Trenchless Fund ETF', 'i': 'Equity', 'm': 33997996}, {'s': 'RVNU', 'n': 'Xtrackers Municipal Infrastructure Revenue Bond ETF', 'i': 'Fixed Income', 'm': 123073330}, {'s': 'RVRB', 'n': 'Reverb ETF', 'i': 'Equity', 'm': 4072215}, {'s': 'RWJ', 'n': 'Invesco S&P SmallCap 600 Revenue ETF', 'i': 'Equity', 'm': 1481111800}, {'s': 'RWK', 'n': 'Invesco S&P MidCap 400 Revenue ETF', 'i': 'Equity', 'm': 732561600}, {'s': 'RWL', 'n': 'Invesco S&P 500 Revenue ETF', 'i': 'Equity', 'm': 2924171800}, {'s': 'RWM', 'n': 'ProShares Short Russell2000', 'i': 'Equity', 'm': 170593810}, {'s': 'RWO', 'n': 'SPDR Dow Jones Global Real Estate ETF', 'i': 'Equity', 'm': 1177625600}, {'s': 'RWR', 'n': 'SPDR Dow Jones REIT ETF', 'i': 'Equity', 'm': 1368751100}, {'s': 'RWX', 'n': 'SPDR Dow Jones International Real Estate ETF', 'i': 'Equity', 'm': 294693900}, {'s': 'RXD', 'n': 'ProShares UltraShort Health Care', 'i': 'Equity', 'm': 1130550.5}, {'s': 'RXI', 'n': 'iShares Global Consumer Discretionary ETF', 'i': 'Equity', 'm': 263172480}, {'s': 'RXL', 'n': 'ProShares Ultra Health Care', 'i': 'Equity', 'm': 87520700}, {'s': 'RYLD', 'n': 'Global X Russell 2000 Covered Call ETF', 'i': 'Equity', 'm': 1421747000}, {'s': 'RYLG', 'n': 'Global X Russell 2000 Covered Call & Growth ETF', 'i': 'Equity', 'm': 7873914}, {'s': 'RYSE', 'n': 'Vest 10 Year Interest Rate Hedge ETF', 'i': 'Alternatives', 'm': 2517180}, {'s': 'RZG', 'n': 'Invesco S&P Smallcap 600 Pure Growth ETF', 'i': 'Equity', 'm': 100991450}, {'s': 'RZV', 'n': 'Invesco S&P Smallcap 600 Pure Value ETF', 'i': 'Equity', 'm': 236033900}, {'s': 'SAA', 'n': 'ProShares Ultra SmallCap600', 'i': 'Equity', 'm': 31589656}, {'s': 'SAEF', 'n': 'Schwab Ariel ESG ETF', 'i': 'Equity', 'm': 21454400}, {'s': 'SAGP', 'n': 'Strategas Global Policy Opportunities ETF', 'i': 'Equity', 'm': 36519080}, {'s': 'SAMB', 'n': 'Strategas Macro Momentum ETF', 'i': 'Equity', 'm': 5460261}, {'s': 'SAMT', 'n': 'Strategas Macro Thematic Opportunities ETF', 'i': 'Equity', 'm': 66296412}, {'s': 'SARK', 'n': 'AXS Short Innovation Daily ETF', 'i': 'Equity', 'm': 134700980}, {'s': 'SATO', 'n': 'Invesco Alerian Galaxy Crypto Economy ETF', 'i': 'Equity', 'm': 8753563}, {'s': 'SAUG', 'n': 'FT Vest U.S. Small Cap Moderate Buffer ETF - August', 'i': 'Equity', 'm': 38748644}, {'s': 'SBB', 'n': 'ProShares Short SmallCap600', 'i': 'Equity', 'm': 6096045}, {'s':

'SBIO', 'n': 'ALPS Medical Breakthroughs ETF', 'i': 'Equity', 'm': 110368000},  
 {'s': 'SBIT', 'n': 'ProShares UltraShort Bitcoin ETF', 'i': 'Currency', 'm':  
 6845.024}, {'s': 'SBND', 'n': 'Columbia Short Duration Bond ETF', 'i': 'Fixed  
 Income', 'm': 52577908}, {'s': 'SCAP', 'n': 'InfraCap Small Cap Income ETF',  
 'i': 'Equity', 'm': 3280120}, {'s': 'SCC', 'n': 'ProShares UltraShort Consumer  
 Discretionary', 'i': 'Equity', 'm': 1305095.6}, {'s': 'SCHA', 'n': 'Schwab U.S.  
 Small-Cap ETF', 'i': 'Equity', 'm': 16473186000}, {'s': 'SCHB', 'n': 'Schwab  
 U.S. Broad Market ETF', 'i': 'Equity', 'm': 27665640000}, {'s': 'SCHC', 'n':  
 'Schwab International Small-Cap Equity ETF', 'i': 'Equity', 'm': 4039035000},  
 {'s': 'SCHD', 'n': 'Schwab US Dividend Equity ETF', 'i': 'Equity', 'm':  
 53654553000}, {'s': 'SCHE', 'n': 'Schwab Emerging Markets Equity ETF', 'i':  
 'Equity', 'm': 8680914000}, {'s': 'SCHF', 'n': 'Schwab International Equity  
 ETF', 'i': 'Equity', 'm': 36438990000}, {'s': 'SCHG', 'n': 'Schwab U.S. Large-  
 Cap Growth ETF', 'i': 'Equity', 'm': 27180628000}, {'s': 'SCHH', 'n': 'Schwab  
 U.S. REIT ETF', 'i': 'Equity', 'm': 6212742700}, {'s': 'SCHI', 'n': 'Schwab 5-10  
 Year Corporate Bond ETF', 'i': 'Fixed Income', 'm': 6339384000}, {'s': 'SCHJ',  
 'n': 'Schwab 1-5 Year Corporate Bond ETF', 'i': 'Fixed Income', 'm': 396989000},  
 {'s': 'SCHK', 'n': 'Schwab 1000 Index ETF', 'i': 'Equity', 'm': 3404295000},  
 {'s': 'SCHM', 'n': 'Schwab U.S. Mid-Cap ETF', 'i': 'Equity', 'm': 11294140000},  
 {'s': 'SCHQ', 'n': 'Schwab Short-Term US Treasury ETF', 'i': 'Fixed Income',  
 'm': 10434324000}, {'s': 'SCHP', 'n': 'Schwab US TIPS ETF', 'i': 'Fixed Income',  
 'm': 10913306000}, {'s': 'SCHQ', 'n': 'Schwab Long-Term U.S. Treasury ETF', 'i':  
 'Fixed Income', 'm': 638193000}, {'s': 'SCHR', 'n': 'Schwab Intermediate-Term US  
 Treasury ETF', 'i': 'Fixed Income', 'm': 8009736000}, {'s': 'SCHV', 'n': 'Schwab  
 U.S. Large-Cap Value ETF', 'i': 'Equity', 'm': 10661210000}, {'s': 'SCHX', 'n':  
 'Schwab U.S. Large-Cap ETF', 'i': 'Equity', 'm': 39290896000}, {'s': 'SCHY',  
 'n': 'Schwab International Dividend Equity ETF', 'i': 'Equity', 'm': 769500000},  
 {'s': 'SCHZ', 'n': 'Schwab US Aggregate Bond ETF', 'i': 'Fixed Income', 'm':  
 7487788000}, {'s': 'SCIO', 'n': 'First Trust Structured Credit Income  
 Opportunities ETF', 'i': 'Fixed Income', 'm': 15106540}, {'s': 'SCJ', 'n':  
 'iShares MSCI Japan Small-Cap ETF', 'i': 'Equity', 'm': 126986940}, {'s':  
 'SCLZ', 'n': 'Swan Enhanced Dividend Income ETF', 'i': 'Equity', 'm': 2491000},  
 {'s': 'SCMB', 'n': 'Schwab Municipal Bond ETF', 'i': 'Fixed Income', 'm':  
 306425000}, {'s': 'SCO', 'n': 'ProShares UltraShort Bloomberg Crude Oil', 'i':  
 'Commodity', 'm': 210423940}, {'s': 'SCRD', 'n': 'Janus Henderson Sustainable  
 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 30435040}, {'s': 'SCYB', 'n':  
 'Schwab High Yield Bond ETF', 'i': 'Fixed Income', 'm': 141047500}, {'s': 'SCZ',  
 'n': 'iShares MSCI EAFE Small-Cap ETF', 'i': 'Equity', 'm': 9503439000}, {'s':  
 'SDCI', 'n': 'USCF SummerHaven Dynamic Commodity Strategy No K-1 Fund', 'i':  
 'Commodity', 'm': 16102350}, {'s': 'SDCP', 'n': 'Virtus Newfleet Short Duration  
 Core Plus Bond ETF', 'i': 'Fixed Income', 'm': 10256103}, {'s': 'SDD', 'n':  
 'ProShares UltraShort SmallCap600', 'i': 'Equity', 'm': 2373615.5}, {'s':  
 'SDEM', 'n': 'Global X MSCI SuperDividend Emerging Markets ETF', 'i': 'Equity',  
 'm': 46143164}, {'s': 'SDG', 'n': 'iShares MSCI Global Sustainable Development  
 Goals ETF', 'i': 'Equity', 'm': 298535170}, {'s': 'SDIV', 'n': 'Global X  
 Superdividend ETF', 'i': 'Equity', 'm': 753144770}, {'s': 'SDOG', 'n': 'ALPS  
 Sector Dividend Dogs ETF', 'i': 'Equity', 'm': 1117167000}, {'s': 'SDOW', 'n':  
 'ProShares UltraPro Short Dow30', 'i': 'Equity', 'm': 355802750}, {'s': 'SDP',

'n': 'ProShares UltraShort Utilities', 'i': 'Equity', 'm': 877142.7}, {'s':  
'SDS', 'n': 'ProShares UltraShort S&P500', 'i': 'Equity', 'm': 610346900}, {'s':  
'SDSI', 'n': 'American Century Short Duration Strategic Income ETF', 'i': 'Fixed  
Income', 'm': 30265320}, {'s': 'SDVD', 'n': 'FT Vest SMID Rising Dividend  
Achievers Target Income ETF', 'i': 'Equity', 'm': 85831700}, {'s': 'SDVY', 'n':  
'First Trust SMID Cap Rising Dividend Achievers ETF', 'i': 'Equity', 'm':  
3956918000}, {'s': 'SDY', 'n': 'SPDR S&P Dividend ETF', 'i': 'Equity', 'm':  
20256334000}, {'s': 'SEA', 'n': 'U.S. Global Sea to Sky Cargo ETF', 'i':  
'Equity', 'm': 6136000}, {'s': 'SECT', 'n': 'Main Sector Rotation ETF', 'i':  
'Equity', 'm': 1648218000}, {'s': 'SEF', 'n': 'ProShares Short Financials', 'i':  
'Equity', 'm': 12431686}, {'s': 'SEIM', 'n': 'SEI Enhanced U.S. Large Cap  
Momentum Factor ETF', 'i': 'Equity', 'm': 452677920}, {'s': 'SEIQ', 'n': 'SEI  
Enhanced U.S. Large Cap Quality Factor ETF', 'i': 'Equity', 'm': 221811950},  
{'s': 'SEIV', 'n': 'SEI Enhanced U.S. Large Cap Value Factor ETF', 'i':  
'Equity', 'm': 454011100}, {'s': 'SEIX', 'n': 'Virtus Seix Senior Loan ETF',  
'i': 'Fixed Income', 'm': 123327144}, {'s': 'SELV', 'n': 'SEI Enhanced Low  
Volatility U.S. Large Cap ETF', 'i': 'Equity', 'm': 123750350}, {'s': 'SEMI',  
'n': 'Columbia Seligman Semiconductor and Technology ETF', 'i': 'Equity', 'm':  
37495772}, {'s': 'SEPT', 'n': 'AllianzIM U.S. Large Cap Buffer10 Sep ETF', 'i':  
'Equity', 'm': 12587895}, {'s': 'SEPW', 'n': 'AllianzIM U.S. Large Cap Buffer20  
Sep ETF', 'i': 'Equity', 'm': 36654524}, {'s': 'SEPZ', 'n': 'TrueShares  
Structured Outcome (September) ETF', 'i': 'Equity', 'm': 17713674}, {'s':  
'SETH', 'n': 'ProShares Short Ether Strategy ETF', 'i': 'Currency', 'm':  
2258190.8}, {'s': 'SETM', 'n': 'Sprott Energy Transition Materials ETF', 'i':  
'Equity', 'm': 13044669}, {'s': 'SFEB', 'n': 'FT Vest U.S. Small Cap Moderate  
Buffer ETF - February', 'i': 'Equity', 'm': 55725640}, {'s': 'SFIG', 'n':  
'WisdomTree U.S. Short Term Corporate Bond Fund', 'i': 'Fixed Income', 'm':  
52123170}, {'s': 'SFL0', 'n': 'VictoryShares Small Cap Free Cash Flow ETF', 'i':  
'Equity', 'm': 43817070}, {'s': 'SFLR', 'n': 'Innovator Equity Managed Floor  
ETF', 'i': 'Equity', 'm': 213759360}, {'s': 'SFY', 'n': 'SoFi Select 500 ETF',  
'i': 'Equity', 'm': 711801800}, {'s': 'SFYF', 'n': 'SoFi Social 50 ETF', 'i':  
'Equity', 'm': 15821512}, {'s': 'SFYX', 'n': 'SoFi Next 500 ETF', 'i': 'Equity',  
'm': 80496060}, {'s': 'SGDJ', 'n': 'Sprott Junior Gold Miners ETF', 'i':  
'Equity', 'm': 119452200}, {'s': 'SGDM', 'n': 'Sprott Gold Miners ETF', 'i':  
'Equity', 'm': 240026400}, {'s': 'SGLC', 'n': 'SGI U.S. Large Cap Core ETF',  
'i': 'Equity', 'm': 79154410}, {'s': 'SGOL', 'n': 'abrdn Physical Gold Shares  
ETF', 'i': 'Commodity', 'm': 3163462000}, {'s': 'SGOV', 'n': 'iShares 0-3 Month  
Treasury Bond ETF', 'i': 'Fixed Income', 'm': 19590130000}, {'s': 'SH', 'n':  
'ProShares Short S&P500', 'i': 'Equity', 'm': 1026368260}, {'s': 'SHAG', 'n':  
'WisdomTree Yield Enhanced U.S. Short-Term Aggregate Bond Fund', 'i': 'Fixed  
Income', 'm': 37415280}, {'s': 'SHDG', 'n': 'Soundwatch Hedged Equity ETF', 'i':  
'Equity', 'm': 127530530}, {'s': 'SHE', 'n': 'SPDR MSCI USA Gender Diversity  
ETF', 'i': 'Equity', 'm': 235740080}, {'s': 'SHLD', 'n': 'Global X Defense Tech  
ETF', 'i': 'Equity', 'm': 40681176}, {'s': 'SHM', 'n': 'SPDR Nuveen Bloomberg  
Short Term Municipal Bond ETF', 'i': 'Fixed Income', 'm': 3835329300}, {'s':  
'SHOC', 'n': 'Strive U.S. Semiconductor ETF', 'i': 'Equity', 'm': 61562216},  
{'s': 'SHPP', 'n': 'Pacer Industrials and Logistics ETF', 'i': 'Equity', 'm':  
1091764}, {'s': 'SHRT', 'n': 'Gotham Short Strategies ETF', 'i': 'Equity', 'm':

17668108}, {'s': 'SHRY', 'n': 'First Trust Bloomberg Shareholder Yield ETF',  
 'i': 'Equity', 'm': 18523574}, {'s': 'SHUS', 'n': 'Syntax Stratified U.S. Total  
 Market Hedged ETF', 'i': 'Equity', 'm': 34841500}, {'s': 'SHV', 'n': 'iShares  
 Short Treasury Bond ETF', 'i': 'Fixed Income', 'm': 18398458000}, {'s': 'SHY',  
 'n': 'iShares 1-3 Year Treasury Bond ETF', 'i': 'Fixed Income', 'm':  
 24415476000}, {'s': 'SHYD', 'n': 'VanEck Short High Yield Muni ETF', 'i': 'Fixed  
 Income', 'm': 326661300}, {'s': 'SHYG', 'n': 'iShares 0-5 Year High Yield  
 Corporate Bond ETF', 'i': 'Fixed Income', 'm': 5812307000}, {'s': 'SHYL', 'n':  
 'Xtrackers Short Duration High Yield Bond ETF', 'i': 'Fixed Income', 'm':  
 103099240}, {'s': 'SIFI', 'n': 'Harbor Scientific Alpha Income ETF', 'i': 'Fixed  
 Income', 'm': 32937500}, {'s': 'SIHY', 'n': 'Harbor Scientific Alpha High-Yield  
 ETF', 'i': 'Fixed Income', 'm': 122985980}, {'s': 'SIJ', 'n': 'ProShares  
 UltraShort Industrials', 'i': 'Equity', 'm': 1393499.2}, {'s': 'SIL', 'n':  
 'Global X Silver Miners ETF', 'i': 'Equity', 'm': 1077036900}, {'s': 'SILJ',  
 'n': 'Amplify Junior Silver Miners ETF', 'i': 'Equity', 'm': 861068000}, {'s':  
 'SIMS', 'n': 'SPDR S&P Kensho Intelligent Structures ETF', 'i': 'Equity', 'm':  
 17130008}, {'s': 'SIO', 'n': 'Touchstone Strategic Income Opportunities ETF',  
 'i': 'Fixed Income', 'm': 102733130}, {'s': 'SIVR', 'n': 'abrdn Physical Silver  
 Shares ETF', 'i': 'Commodity', 'm': 1250359900}, {'s': 'SIXA', 'n': 'ETC 6  
 Meridian Mega Cap Equity ETF', 'i': 'Equity', 'm': 230180800}, {'s': 'SIXF',  
 'n': 'AllianzIM U.S. Large Cap 6 Month Buffer10 Feb/Aug ETF', 'i': 'Equity',  
 'm': 18802004}, {'s': 'SIXH', 'n': 'ETC 6 Meridian Hedged Equity Index Option  
 ETF', 'i': 'Equity', 'm': 393938180}, {'s': 'SIXJ', 'n': 'AllianzIM U.S. Large  
 Cap 6 Month Buffer10 Jan/Jul ETF', 'i': 'Equity', 'm': 99848160}, {'s': 'SIXL',  
 'n': 'ETC 6 Meridian Low Beta Equity ETF', 'i': 'Equity', 'm': 150308830}, {'s':  
 'SIXO', 'n': 'AllianzIM U.S. Large Cap 6 Month Buffer10 Apr/Oct ETF', 'i':  
 'Equity', 'm': 66873396}, {'s': 'SIXP', 'n': 'AllianzIM U.S. Large Cap 6 Month  
 Buffer10 Mar/Sep ETF', 'i': 'Equity', 'm': 24101880}, {'s': 'SIXS', 'n': 'ETC 6  
 Meridian Small Cap Equity ETF', 'i': 'Equity', 'm': 72889544}, {'s': 'SIZE',  
 'n': 'iShares MSCI USA Size Factor ETF', 'i': 'Equity', 'm': 346110430}, {'s':  
 'SJB', 'n': 'ProShares Short High Yield', 'i': 'Fixed Income', 'm': 103977600},  
 {'s': 'SJNK', 'n': 'SPDR Bloomberg Short Term High Yield Bond ETF', 'i': 'Fixed  
 Income', 'm': 4553920500}, {'s': 'SKF', 'n': 'ProShares UltraShort Financials',  
 'i': 'Equity', 'm': 16834232}, {'s': 'SKOR', 'n': 'FlexShares Credit-Scored US  
 Corporate Bond Index Fund Credit-Scored US Corp Bond Index Fund', 'i': 'Fixed  
 Income', 'm': 358977820}, {'s': 'SKRE', 'n': 'Tuttle Capital Daily 2X Inverse  
 Regional Banks ETF', 'i': 'Equity', 'm': 5498900}, {'s': 'SKYU', 'n': 'ProShares  
 Ultra Nasdaq Cloud Computing ETF', 'i': 'Equity', 'm': 3658201.2}, {'s': 'SKYY',  
 'n': 'First Trust Cloud Computing ETF', 'i': 'Equity', 'm': 3048372700}, {'s':  
 'SLQD', 'n': 'iShares 0-5 Year Investment Grade Corporate Bond ETF', 'i': 'Fixed  
 Income', 'm': 2093734500}, {'s': 'SLV', 'n': 'iShares Silver Trust', 'i':  
 'Commodity', 'm': 12153225000}, {'s': 'SLVP', 'n': 'iShares MSCI Global Silver  
 Miners ETF', 'i': 'Equity', 'm': 214591460}, {'s': 'SLX', 'n': 'VanEck Steel  
 ETF', 'i': 'Equity', 'm': 110293190}, {'s': 'SLYG', 'n': 'SPDR S&P 600 Small Cap  
 Growth ETF', 'i': 'Equity', 'm': 3233647900}, {'s': 'SLYV', 'n': 'SPDR S&P 600  
 Small Cap Value ETF', 'i': 'Equity', 'm': 3813409500}, {'s': 'SMAY', 'n': 'FT  
 Vest U.S. Small Cap Moderate Buffer ETF - May', 'i': 'Equity', 'm': 22581046},  
 {'s': 'SMB', 'n': 'VanEck Short Muni ETF', 'i': 'Fixed Income', 'm': 235721760},

{'s': 'SMCF', 'n': 'Themes US Small Cap Cash Flow Champions ETF', 'i': 'Equity', 'm': 584570}, {'s': 'SMCO', 'n': 'Hilton Small-MidCap Opportunity ETF', 'i': 'Equity', 'm': 69627000}, {'s': 'SMCP', 'n': 'AlphaMark Actively Managed Small Cap ETF', 'i': 'Equity', 'm': 31815000}, {'s': 'SMDD', 'n': 'ProShares UltraPro Short MidCap400', 'i': 'Equity', 'm': 3121637.5}, {'s': 'SMDV', 'n': 'ProShares Russell 2000 Dividend Growers ETF', 'i': 'Equity', 'm': 748139100}, {'s': 'SMDY', 'n': 'Syntax Stratified MidCap ETF', 'i': 'Equity', 'm': 10510000}, {'s': 'SMH', 'n': 'VanEck Semiconductor ETF', 'i': 'Equity', 'm': 19324688000}, {'s': 'SMI', 'n': 'VanEck HIP Sustainable Muni ETF', 'i': 'Fixed Income', 'm': 18307560}, {'s': 'SMIG', 'n': 'Bahl & Gaynor Small/Mid Cap Income Growth ETF', 'i': 'Equity', 'm': 440125200}, {'s': 'SMIN', 'n': 'iShares MSCI India Small Cap ETF', 'i': 'Equity', 'm': 871202240}, {'s': 'SMIZ', 'n': 'Zacks Small/Mid Cap ETF', 'i': 'Equity', 'm': 32785062}, {'s': 'SMLE', 'n': 'Xtrackers S&P SmallCap 600 ESG ETF', 'i': 'Equity', 'm': 1307026.1}, {'s': 'SMLF', 'n': 'iShares U.S. SmallCap Equity Factor ETF', 'i': 'Equity', 'm': 1007781300}, {'s': 'SMLV', 'n': 'SPDR SSGA US Small Cap Low Volatility Index ETF', 'i': 'Equity', 'm': 175576110}, {'s': 'SMMD', 'n': 'iShares Russell 2500 ETF', 'i': 'Equity', 'm': 1045496060}, {'s': 'SMMU', 'n': 'PIMCO Short Term Municipal Bond Active Exchange-Traded Fund PIMCO Short Term Municipal Bond Active Exchange-Traded Fund', 'i': 'Fixed Income', 'm': 566580000}, {'s': 'SMMV', 'n': 'iShares MSCI USA Small-Cap Min Vol Factor ETF', 'i': 'Equity', 'm': 759937340}, {'s': 'SMN', 'n': 'ProShares UltraShort Materials', 'i': 'Equity', 'm': 968274.94}, {'s': 'SMOG', 'n': 'VanEck Low Carbon Energy ETF', 'i': 'Equity', 'm': 138238160}, {'s': 'SMOT', 'n': 'VanEck Morningstar SMID Moat ETF', 'i': 'Equity', 'm': 332336700}, {'s': 'SMRI', 'n': 'Bushido Capital US Equity ETF', 'i': 'Equity', 'm': 338371200}, {'s': 'SMTH', 'n': 'ALPS/SMITH Core Plus Bond ETF', 'i': 'Fixed Income', 'm': 659192000}, {'s': 'SNAV', 'n': 'Mohr Sector Nav ETF', 'i': 'Equity', 'm': 46414400}, {'s': 'SNOV', 'n': 'FT Vest U.S. Small Cap Moderate Buffer ETF - November', 'i': 'Equity', 'm': 27938342}, {'s': 'SNPD', 'n': 'Xtrackers S&P ESG Dividend Aristocrats ETF', 'i': 'Equity', 'm': 5213026}, {'s': 'SNPE', 'n': 'Xtrackers S&P 500 ESG ETF', 'i': 'Equity', 'm': 1141713400}, {'s': 'SNPG', 'n': 'Xtrackers S&P 500 Growth ESG ETF', 'i': 'Equity', 'm': 9617038}, {'s': 'SNPV', 'n': 'Xtrackers S&P 500 Value ESG ETF', 'i': 'Equity', 'm': 5972430}, {'s': 'SNSR', 'n': 'Global X Internet of Things ETF', 'i': 'Equity', 'm': 279632580}, {'s': 'SOCL', 'n': 'Global X Social Media ETF', 'i': 'Equity', 'm': 151284560}, {'s': 'SOF', 'n': 'Amplify Samsung SOFR ETF', 'i': 'Fixed Income', 'm': 155559550}, {'s': 'SOLR', 'n': 'Guinness Atkinson Funds SmartETFs Sustainable Energy II Fund', 'i': 'Equity', 'm': 4910994}, {'s': 'SOVF', 'n': 'Sovereign's Capital Flourish Fund', 'i': 'Equity', 'm': 37538624}, {'s': 'SOXL', 'n': 'Direxion Daily Semiconductor Bull 3x Shares', 'i': 'Equity', 'm': 10660305000}, {'s': 'SOXQ', 'n': 'Invesco PHLX Semiconductor ETF', 'i': 'Equity', 'm': 373977150}, {'s': 'SOXS', 'n': 'Direxion Daily Semiconductor Bear 3x Shares', 'i': 'Equity', 'm': 7113262600}, {'s': 'SOXX', 'n': 'iShares Semiconductor ETF', 'i': 'Equity', 'm': 12959365000}, {'s': 'SOYB', 'n': 'Teucrium Soybean Fund', 'i': 'Commodity', 'm': 35211850}, {'s': 'SPAB', 'n': 'SPDR Portfolio Aggregate Bond ETF', 'i': 'Fixed Income', 'm': 7788921000}, {'s': 'SPAM', 'n': 'Themes Cybersecurity ETF', 'i': 'Equity', 'm': 1365000}, {'s': 'SPAQ', 'n': 'Horizon Kinetics SPAC Active ETF', 'i': 'Equity', 'm':



16461014}, {'s': 'SPAX', 'n': 'Robinson Alternative Yield Pre-merger SPAC ETF',  
 'i': 'Equity', 'm': 15307275}, {'s': 'SPBC', 'n': 'Simplify US Equity PLUS GBTC  
 ETF', 'i': 'Asset Allocation', 'm': 21688584}, {'s': 'SPBO', 'n': 'SPDR  
 Portfolio Corporate Bond ETF', 'i': 'Fixed Income', 'm': 1405543400}, {'s':  
 'SPC', 'n': 'CrossingBridge Pre-Merger SPAC ETF', 'i': 'Equity', 'm': 70669200},  
 {'s': 'SPCX', 'n': 'SPAC and New Issue ETF', 'i': 'Equity', 'm': 12302745},  
 {'s': 'SPCZ', 'n': 'RiverNorth Enhanced Pre-Merger SPAC ETF', 'i': 'Equity',  
 'm': 5122650}, {'s': 'SPD', 'n': 'Simplify US Equity PLUS Downside Convexity  
 ETF', 'i': 'Equity', 'm': 98653630}, {'s': 'SPDG', 'n': 'SPDR Portfolio S&P  
 Sector Neutral Dividend ETF', 'i': 'Equity', 'm': 5359331}, {'s': 'SPDN', 'n':  
 'Direxion Daily S&P 500 Bear 1X Shares', 'i': 'Equity', 'm': 179901000}, {'s':  
 'SPDV', 'n': 'AAM S&P 500 High Dividend Value ETF', 'i': 'Equity', 'm':  
 607600000}, {'s': 'SPDW', 'n': 'SPDR Portfolio Developed World ex-US ETF', 'i':  
 'Equity', 'm': 19653001000}, {'s': 'SPEM', 'n': 'SPDR Portfolio Emerging Markets  
 ETF', 'i': 'Equity', 'm': 8631174000}, {'s': 'SPEU', 'n': 'SPDR Portfolio Europe  
 ETF', 'i': 'Equity', 'm': 275768960}, {'s': 'SPFF', 'n': 'Global X SuperIncome  
 Preferred ETF', 'i': 'Fixed Income', 'm': 156167140}, {'s': 'SPGM', 'n': 'SPDR  
 Portfolio MSCI Global Stock Market ETF', 'i': 'Equity', 'm': 765754240}, {'s':  
 'SPGP', 'n': 'Invesco S&P 500 GARP ETF', 'i': 'Equity', 'm': 4989929000}, {'s':  
 'SPHB', 'n': 'Invesco S&P 500 High Beta ETF', 'i': 'Equity', 'm': 628201700},  
 {'s': 'SPHD', 'n': 'Invesco S&P 500 High Dividend Low Volatility ETF', 'i':  
 'Equity', 'm': 2879844400}, {'s': 'SPHQ', 'n': 'Invesco S&P 500 Quality ETF',  
 'i': 'Equity', 'm': 8611494000}, {'s': 'SPHY', 'n': 'SPDR Portfolio High Yield  
 Bond ETF', 'i': 'Fixed Income', 'm': 4117781000}, {'s': 'SPIB', 'n': 'SPDR  
 Portfolio Intermediate Term Corporate Bond ETF', 'i': 'Fixed Income', 'm':  
 8643293000}, {'s': 'SPIP', 'n': 'SPDR Portfolio TIPS ETF', 'i': 'Fixed Income',  
 'm': 1269275800}, {'s': 'SPLB', 'n': 'SPDR Portfolio Long Term Corporate Bond  
 ETF', 'i': 'Fixed Income', 'm': 770999550}, {'s': 'SPLG', 'n': 'SPDR Portfolio  
 S&P 500 ETF', 'i': 'Equity', 'm': 33731680000}, {'s': 'SPLV', 'n': 'Invesco S&P  
 500 Low Volatility ETF', 'i': 'Equity', 'm': 7230524000}, {'s': 'SPMB', 'n':  
 'SPDR Portfolio Mortgage Backed Bond ETF', 'i': 'Fixed Income', 'm':  
 4946660400}, {'s': 'SPMD', 'n': 'SPDR Portfolio S&P 400 Mid Cap ETF', 'i':  
 'Equity', 'm': 9893761000}, {'s': 'SPMO', 'n': 'Invesco S&P 500 Momentum ETF',  
 'i': 'Equity', 'm': 1196018400}, {'s': 'SPMV', 'n': 'Invesco S&P 500 Minimum  
 Variance ETF', 'i': 'Equity', 'm': 5424941.5}, {'s': 'SPQ', 'n': 'Simplify US  
 Equity PLUS QIS ETF', 'i': 'Equity', 'm': 3597528.8}, {'s': 'SPRE', 'n': 'SP  
 Funds S&P Global REIT Sharia ETF', 'i': 'Equity', 'm': 103353460}, {'s': 'SPRX',  
 'n': 'Spear Alpha ETF', 'i': 'Equity', 'm': 69039800}, {'s': 'SPSB', 'n': 'SPDR  
 Portfolio Short Term Corporate Bond ETF', 'i': 'Fixed Income', 'm': 7645960700},  
 {'s': 'SPSK', 'n': 'SP Funds Dow Jones Global Sukuk ETF', 'i': 'Fixed Income',  
 'm': 189340450}, {'s': 'SPSM', 'n': 'SPDR Portfolio S&P 600 Small Cap ETF', 'i':  
 'Equity', 'm': 10231211000}, {'s': 'SPTE', 'n': 'SP Funds S&P Global Technology  
 ETF', 'i': 'Equity', 'm': 29482920}, {'s': 'SPTI', 'n': 'SPDR Portfolio  
 Intermediate Term Treasury ETF', 'i': 'Fixed Income', 'm': 5421930000}, {'s':  
 'SPTL', 'n': 'SPDR Portfolio Long Term Treasury ETF', 'i': 'Fixed Income', 'm':  
 8942972000}, {'s': 'SPTM', 'n': 'SPDR Portfolio S&P 1500 Composite Stock Market  
 ETF', 'i': 'Equity', 'm': 8119966000}, {'s': 'SPTS', 'n': 'SPDR Portfolio Short  
 Term Treasury ETF', 'i': 'Fixed Income', 'm': 5494377000}, {'s': 'SPUC', 'n':

'Simplify US Equity PLUS Upside Convexity ETF', 'i': 'Equity', 'm': 5719838},  
 {'s': 'SPUS', 'n': 'SP Funds S&P 500 Sharia Industry Exclusions ETF', 'i':  
 'Equity', 'm': 525061920}, {'s': 'SPUU', 'n': 'Direxion Daily S&P 500 Bull 2x  
 Shares', 'i': 'Equity', 'm': 148841710}, {'s': 'SPVM', 'n': 'Invesco S&P 500  
 Value with Momentum ETF', 'i': 'Equity', 'm': 37863060}, {'s': 'SPVU', 'n':  
 'Invesco S&P 500 Enhanced Value ETF', 'i': 'Equity', 'm': 113611730}, {'s':  
 'SPWO', 'n': 'SP Funds S&P World (ex-US) ETF', 'i': 'Equity', 'm': 11628210},  
 {'s': 'SPXB', 'n': 'ProShares S&P 500 Bond ETF', 'i': 'Fixed Income', 'm':  
 9191736}, {'s': 'SPXE', 'n': 'ProShares S&P 500 Ex-Energy ETF', 'i': 'Equity',  
 'm': 49314300}, {'s': 'SPXL', 'n': 'Direxion Daily S&P 500 Bull 3x Shares', 'i':  
 'Equity', 'm': 4080384300}, {'s': 'SPXN', 'n': 'ProShares S&P 500 Ex-Financials  
 ETF', 'i': 'Equity', 'm': 57811748}, {'s': 'SPXS', 'n': 'Direxion Daily S&P 500  
 Bear 3x Shares', 'i': 'Equity', 'm': 624252500}, {'s': 'SPXT', 'n': 'ProShares  
 S&P 500 Ex-Technology ETF', 'i': 'Equity', 'm': 52384520}, {'s': 'SPXU', 'n':  
 'ProShares UltraPro Short S&P500', 'i': 'Equity', 'm': 625188160}, {'s': 'SPXV',  
 'n': 'ProShares S&P 500 Ex-Health Care ETF', 'i': 'Equity', 'm': 20466032},  
 {'s': 'SPY', 'n': 'SPDR S&P 500 ETF Trust', 'i': 'Equity', 'm': 518741360000},  
 {'s': 'SPYC', 'n': 'Simplify US Equity PLUS Convexity ETF', 'i': 'Equity', 'm':  
 65082360}, {'s': 'SPYD', 'n': 'SPDR Portfolio S&P 500 High Dividend ETF', 'i':  
 'Equity', 'm': 6718933500}, {'s': 'SPYG', 'n': 'SPDR Portfolio S&P 500 Growth  
 ETF', 'i': 'Equity', 'm': 25142225000}, {'s': 'SPYI', 'n': 'NEOS S&P 500 High  
 Income ETF', 'i': 'Equity', 'm': 1144837900}, {'s': 'SPYT', 'n': 'Defiance S&P  
 500 Target Income ETF', 'i': 'Equity', 'm': 10427865}, {'s': 'SPYV', 'n': 'SPDR  
 Portfolio S&P 500 Value ETF', 'i': 'Equity', 'm': 20850508000}, {'s': 'SPYX',  
 'n': 'SPDR S&P 500 Fossil Fuel Reserves Free ETF', 'i': 'Equity', 'm':  
 1697584600}, {'s': 'SQEW', 'n': 'LeaderShares Equity Skew ETF', 'i': 'Equity',  
 'm': 122247000}, {'s': 'SQLV', 'n': 'Royce Quant Small-Cap Quality Value ETF',  
 'i': 'Equity', 'm': 27963688}, {'s': 'SQQQ', 'n': 'ProShares UltraPro Short  
 QQQ', 'i': 'Equity', 'm': 3113675800}, {'s': 'SQY', 'n': 'YieldMax SQ Option  
 Income Strategy ETF', 'i': 'Equity', 'm': 30370956}, {'s': 'SRET', 'n': 'Global  
 X SuperDividend REIT ETF', 'i': 'Equity', 'm': 206297700}, {'s': 'SRHQ', 'n':  
 'SRH U.S. Quality ETF', 'i': 'Equity', 'm': 137155020}, {'s': 'SRHR', 'n': 'SRH  
 REIT Covered Call ETF', 'i': 'Equity', 'm': 50847390}, {'s': 'SRLN', 'n': 'SPDR  
 Blackstone Senior Loan ETF', 'i': 'Fixed Income', 'm': 5738271000}, {'s':  
 'SROI', 'n': 'Calamos Antetokounmpo Global Sustainable Equities ETF', 'i':  
 'Equity', 'm': 11154440}, {'s': 'SRS', 'n': 'ProShares UltraShort Real Estate',  
 'i': 'Equity', 'm': 42098496}, {'s': 'SRTY', 'n': 'ProShares UltraPro Short  
 Russell2000', 'i': 'Equity', 'm': 127991460}, {'s': 'SRVR', 'n': 'Pacer Data &  
 Infrastructure Real Estate ETF', 'i': 'Equity', 'm': 442192930}, {'s': 'SSFI',  
 'n': 'Day Hagan/Ned Davis Research Smart Sector Fixed Income ETF', 'i': 'Fixed  
 Income', 'm': 38517000}, {'s': 'SSG', 'n': 'Proshares Ultrashort  
 Semiconductors', 'i': 'Equity', 'm': 7201811}, {'s': 'SSLY', 'n': 'Syntax  
 Stratified SmallCap ETF', 'i': 'Equity', 'm': 17340000}, {'s': 'SSO', 'n':  
 'ProShares Ultra S&P 500', 'i': 'Equity', 'm': 4800507400}, {'s': 'SSPX', 'n':  
 'Janus Henderson U.S. Sustainable Equity ETF', 'i': 'Equity', 'm': 8489026},  
 {'s': 'SSPY', 'n': 'Syntax Stratified LargeCap ETF', 'i': 'Equity', 'm':  
 91666750}, {'s': 'SSUS', 'n': 'Day Hagan/Ned Davis Research Smart Sector ETF',  
 'i': 'Equity', 'm': 640172000}, {'s': 'SSXU', 'n': 'Day Hagan/Ned Davis Research

Smart Sector International ETF', 'i': 'Equity', 'm': 33806040}, {'s': 'STAX', 'n': 'Macquarie Tax-Free USA Short Term ETF', 'i': 'Fixed Income', 'm': 5010000}, {'s': 'STCE', 'n': 'Schwab Crypto Thematic ETF', 'i': 'Equity', 'm': 36400000}, {'s': 'STIP', 'n': 'iShares 0-5 Year TIPS Bond ETF', 'i': 'Fixed Income', 'm': 8010360000}, {'s': 'STLG', 'n': 'iShares Factors US Growth Style ETF', 'i': 'Equity', 'm': 52261772}, {'s': 'STNC', 'n': 'Hennessy Stance ESG ETF', 'i': 'Equity', 'm': 117180200}, {'s': 'STOT', 'n': 'SPDR DoubleLine Short Duration Total Return Tactical ETF', 'i': 'Fixed Income', 'm': 170277470}, {'s': 'STPZ', 'n': 'PIMCO 1-5 Year US TIPS Index Exchange-Traded Fund PIMCO 1-5 Year U.S. TIPS Index Exchange-Traded Fund', 'i': 'Fixed Income', 'm': 515382600}, {'s': 'STRV', 'n': 'Strive 500 ETF', 'i': 'Equity', 'm': 494782700}, {'s': 'STXD', 'n': 'Strive 1000 Dividend Growth ETF', 'i': 'Equity', 'm': 36817650}, {'s': 'STXE', 'n': 'Strive Emerging Markets Ex-China ETF', 'i': 'Equity', 'm': 88693480}, {'s': 'STXG', 'n': 'Strive 1000 Growth ETF', 'i': 'Equity', 'm': 62633100}, {'s': 'STXK', 'n': 'Strive Small-Cap ETF', 'i': 'Equity', 'm': 43621332}, {'s': 'STXM', 'n': 'Strive Mid-Cap ETF', 'i': None, 'm': 2610586}, {'s': 'STXT', 'n': 'Strive Total Return Bond ETF', 'i': 'Fixed Income', 'm': 89694610}, {'s': 'STXV', 'n': 'Strive 1000 Value ETF', 'i': 'Equity', 'm': 38863424}, {'s': 'SUB', 'n': 'iShares Short-Term National Muni Bond ETF', 'i': 'Fixed Income', 'm': 8652969000}, {'s': 'SUPL', 'n': 'ProShares Supply Chain Logistics ETF', 'i': 'Equity', 'm': 2011240.2}, {'s': 'SUPP', 'n': 'TCW Transform Supply Chain ETF', 'i': 'Equity', 'm': 15644126}, {'s': 'SURE', 'n': 'AdvisorShares Insider Advantage ETF', 'i': 'Equity', 'm': 49135276}, {'s': 'SURI', 'n': 'Simplify Propel Opportunities ETF', 'i': 'Asset Allocation', 'm': 102276024}, {'s': 'SUSA', 'n': 'iShares MSCI USA ESG Select ETF', 'i': 'Equity', 'm': 3427189500}, {'s': 'SUSB', 'n': 'iShares ESG Aware 1-5 Year USD Corporate Bond ETF', 'i': 'Fixed Income', 'm': 851543900}, {'s': 'SUSC', 'n': 'iShares ESG Aware USD Corporate Bond ETF', 'i': 'Fixed Income', 'm': 1072966600}, {'s': 'SUSL', 'n': 'iShares ESG MSCI USA Leaders ETF', 'i': 'Equity', 'm': 1132985300}, {'s': 'SVAL', 'n': 'iShares US Small Cap Value Factor ETF', 'i': 'Equity', 'm': 72829090}, {'s': 'SVIX', 'n': '-1x Short VIX Futures ETF', 'i': 'Alternatives', 'm': 118626060}, {'s': 'SVOL', 'n': 'Simplify Volatility Premium ETF', 'i': 'Alternatives', 'm': 838408000}, {'s': 'SVXY', 'n': 'ProShares Short VIX Short-Term Futures ETF', 'i': 'Alternatives', 'm': 301319700}, {'s': 'SWAN', 'n': 'Amplify BlackSwan Growth & Treasury Core ETF', 'i': 'Asset Allocation', 'm': 172212000}, {'s': 'SXQG', 'n': 'ETC 6 Meridian Quality Growth ETF', 'i': 'Equity', 'm': 37041336}, {'s': 'SXUS', 'n': 'Janus Henderson International Sustainable Equity ETF', 'i': 'Equity', 'm': 6904017.5}, {'s': 'SYII', 'n': 'Syntax Stratified Total Market II ETF', 'i': 'Equity', 'm': 8069250}, {'s': 'SYLD', 'n': 'Cambria Shareholder Yield ETF', 'i': 'Equity', 'm': 1220668400}, {'s': 'SYNB', 'n': 'Putnam BioRevolution ETF', 'i': 'Equity', 'm': 5306673.5}, {'s': 'SYUS', 'n': 'Syntax Stratified US Total Market ETF', 'i': 'Equity', 'm': 18828000}, {'s': 'SZK', 'n': 'ProShares UltraShort Consumer Staples', 'i': 'Equity', 'm': 878278.4}, {'s': 'SZNE', 'n': 'Pacer CFRA-Stovall Equal Weight Seasonal Rotation ETF', 'i': 'Equity', 'm': 44321000}, {'s': 'TACK', 'n': 'Fairlead Tactical Sector ETF', 'i': 'Asset Allocation', 'm': 214638000}, {'s': 'TAFI', 'n': 'AB Tax-Aware Short Duration Municipal ETF', 'i': 'Fixed Income', 'm': 481411170}, {'s': 'TAFL', 'n': 'AB Tax-Aware Long Municipal ETF', 'i':

'Fixed Income', 'm': 27465468}, {'s': 'TAFM', 'n': 'AB Tax-Aware Intermediate  
 Municipal ETF', 'i': 'Fixed Income', 'm': 24981800}, {'s': 'TAGG', 'n': 'T. Rowe  
 Price QM U.S. Bond ETF', 'i': 'Fixed Income', 'm': 89076930}, {'s': 'TAGS', 'n':  
 'Teucrium Agricultural Fund', 'i': 'Commodity', 'm': 14063055}, {'s': 'TAIL',  
 'n': 'Cambria Tail Risk ETF', 'i': 'Asset Allocation', 'm': 86473630}, {'s':  
 'TAN', 'n': 'Invesco Solar ETF', 'i': 'Equity', 'm': 1179279200}, {'s': 'TARK',  
 'n': 'AXS 2X Innovation ETF', 'i': 'Equity', 'm': 57047812}, {'s': 'TAXF', 'n':  
 'American Century Diversified Municipal Bond ETF', 'i': 'Fixed Income', 'm':  
 435164400}, {'s': 'TAXX', 'n': 'BondBloxx IR+M Tax-Aware Short Duration ETF',  
 'i': 'Fixed Income', 'm': 41323708}, {'s': 'TBF', 'n': 'Proshares Short 20+ Year  
 Treasury', 'i': 'Fixed Income', 'm': 111041384}, {'s': 'TBFC', 'n': 'Brinsmere  
 Fund Conservative ETF', 'i': 'Asset Allocation', 'm': 278834900}, {'s': 'TBFG',  
 'n': 'Brinsmere Fund Growth ETF', 'i': 'Asset Allocation', 'm': 273516600},  
 {'s': 'TBG', 'n': 'TBG Dividend Focus ETF', 'i': 'Equity', 'm': 56798056}, {'s':  
 'TBIL', 'n': 'US Treasury 3 Month Bill ETF', 'i': 'Fixed Income', 'm':  
 3139148000}, {'s': 'TBJL', 'n': 'Innovator 20+ Year Treasury Bond 9 Buffer ETF -  
 July', 'i': 'Fixed Income', 'm': 64052010}, {'s': 'TBLL', 'n': 'Invesco Short  
 Term Treasury ETF', 'i': 'Fixed Income', 'm': 1634235400}, {'s': 'TBT', 'n':  
 'ProShares UltraShort 20+ Year Treasury', 'i': 'Fixed Income', 'm': 366442300},  
 {'s': 'TBUX', 'n': 'T. Rowe Price Ultra Short-Term Bond ETF', 'i': 'Fixed  
 Income', 'm': 151675120}, {'s': 'TBX', 'n': 'ProShares Short 7-10 Year  
 Treasury', 'i': 'Fixed Income', 'm': 18080460}, {'s': 'TCAF', 'n': 'T. Rowe  
 Price Capital Appreciation Equity ETF', 'i': 'Equity', 'm': 1322124500}, {'s':  
 'TCHI', 'n': 'iShares MSCI China Multisector Tech ETF', 'i': 'Equity', 'm':  
 6460120}, {'s': 'TCHP', 'n': 'T. Rowe Price Blue Chip Growth ETF', 'i':  
 'Equity', 'm': 559848600}, {'s': 'TDI', 'n': 'Touchstone Dynamic International  
 ETF', 'i': 'Equity', 'm': 55884416}, {'s': 'TDIV', 'n': 'First Trust NASDAQ  
 Technology Dividend Index Fund', 'i': 'Equity', 'm': 2408127200}, {'s': 'TDSB',  
 'n': 'Cabana Target Beta ETF', 'i': 'Asset Allocation', 'm': 119119576}, {'s':  
 'TDSC', 'n': 'Cabana Target Beta ETF Cabana Target Drawdown 10 Fund', 'i':  
 'Asset Allocation', 'm': 251615600}, {'s': 'TDTF', 'n': 'FlexShares iBoxx 5 Year  
 Target Duration TIPS Index Fund', 'i': 'Fixed Income', 'm': 782881900}, {'s':  
 'TDTT', 'n': 'FlexShares iBoxx 3 Year Target Duration TIPS Index Fund', 'i':  
 'Fixed Income', 'm': 1789794000}, {'s': 'TDV', 'n': 'ProShares S&P Technology  
 Dividend Aristocrats ETF', 'i': 'Equity', 'm': 281342460}, {'s': 'TDVG', 'n':  
 'T. Rowe Price Dividend Growth ETF', 'i': 'Equity', 'm': 399576030}, {'s':  
 'TDVI', 'n': 'FT Vest Technology Dividend Target Income ETF', 'i': 'Equity',  
 'm': 22622046}, {'s': 'TECB', 'n': 'iShares U.S. Tech Breakthrough Multisector  
 ETF', 'i': 'Equity', 'm': 404672600}, {'s': 'TECL', 'n': 'Direxion Daily  
 Technology Bull 3x Shares', 'i': 'Equity', 'm': 3269508000}, {'s': 'TECS', 'n':  
 'Direxion Daily Technology Bear 3X Shares', 'i': 'Equity', 'm': 154448740},  
 {'s': 'TEMP', 'n': 'JPMorgan Climate Change Solutions ETF', 'i': 'Equity', 'm':  
 23760000}, {'s': 'TEQI', 'n': 'T. Rowe Price Equity Income ETF', 'i': 'Equity',  
 'm': 159717840}, {'s': 'TFI', 'n': 'SPDR Nuveen Bloomberg Municipal Bond ETF',  
 'i': 'Fixed Income', 'm': 3496373200}, {'s': 'TFJL', 'n': 'Innovator 20+ Year  
 Treasury Bond 5 Floor ETF - July', 'i': 'Fixed Income', 'm': 50372190}, {'s':  
 'TFL0', 'n': 'iShares Treasury Floating Rate Bond ETF', 'i': 'Fixed Income',  
 'm': 6759027000}, {'s': 'TFLR', 'n': 'T. Rowe Price Floating Rate ETF', 'i':

'Fixed Income', 'm': 138902780}, {'s': 'TFPN', 'n': 'Blueprint Chesapeake Multi-Asset Trend ETF Blueprint Chesapeake Multi-Asset Trend ETF', 'i': 'Asset Allocation', 'm': 78509440}, {'s': 'TGLR', 'n': 'LAFFER TENGLER Equity Income ETF', 'i': 'Equity', 'm': 11476700}, {'s': 'TGRT', 'n': 'T. Rowe Price Growth ETF', 'i': 'Equity', 'm': 77811336}, {'s': 'TGRW', 'n': 'T. Rowe Price Growth Stock ETF', 'i': 'Equity', 'm': 75456870}, {'s': 'THD', 'n': 'iShares MSCI Thailand ETF', 'i': 'Equity', 'm': 253808720}, {'s': 'THLV', 'n': 'THOR Low Volatility ETF', 'i': 'Equity', 'm': 49327000}, {'s': 'THNQ', 'n': 'ROBO Global Artificial Intelligence ETF', 'i': 'Equity', 'm': 180787740}, {'s': 'THTA', 'n': 'SoFi Enhanced Yield ETF', 'i': 'Alternatives', 'm': 13599225}, {'s': 'THY', 'n': 'Toews Agility Shares Dynamic Tactical Income ETF', 'i': 'Asset Allocation', 'm': 31663500}, {'s': 'THYF', 'n': 'T. Rowe Price U.S. High Yield ETF', 'i': 'Fixed Income', 'm': 51076390}, {'s': 'TILL', 'n': 'Teucrium Agricultural Strategy No K-1 ETF', 'i': 'Commodity', 'm': 2634237.5}, {'s': 'TILT', 'n': 'FlexShares Morningstar US Market Factor Tilt Index Fund FlexShares Morningstar US Market Factors Tilt Index Fund', 'i': 'Equity', 'm': 1584039000}, {'s': 'TIME', 'n': 'Clockwise Core Equity & Innovation ETF', 'i': 'Equity', 'm': 22286250}, {'s': 'TINT', 'n': 'ProShares Smart Materials ETF', 'i': 'Equity', 'm': 1646452.9}, {'s': 'TINY', 'n': 'ProShares Nanotechnology ETF', 'i': 'Equity', 'm': 4954829.5}, {'s': 'TIP', 'n': 'iShares TIPS Bond ETF', 'i': 'Fixed Income', 'm': 18561282000}, {'s': 'TIPX', 'n': 'SPDR Bloomberg 1-10 Year TIPS ETF', 'i': 'Fixed Income', 'm': 1352192300}, {'s': 'TIPZ', 'n': 'PIMCO Broad US TIPS Index Exchange-Traded Fund PIMCO Broad U.S. TIPS Index', 'i': 'Fixed Income', 'm': 101132000}, {'s': 'TJUL', 'n': 'Innovator Equity Defined Protection ETF - 2 Yr to July 2025', 'i': 'Equity', 'm': 233710430}, {'s': 'TLH', 'n': 'iShares 10-20 Year Treasury Bond ETF', 'i': 'Fixed Income', 'm': 7636009500}, {'s': 'TLT', 'n': 'iShares 20+ Year Treasury Bond ETF', 'i': 'Fixed Income', 'm': 47149880000}, {'s': 'TLTD', 'n': 'FlexShares Morningstar Developed Markets ex-US Factor Tilt Index Fund FlexShares Morningstar Dvlpd Mkts ex-US Fctr Tilt Idx Fd', 'i': 'Equity', 'm': 522195870}, {'s': 'TLTE', 'n': 'FlexShares Morningstar Emerging Markets Factor Tilt Index Fund Morningstar Emerging Markets Factor Titl Index Fund', 'i': 'Equity', 'm': 268384020}, {'s': 'TLTW', 'n': 'iShares 20+ Year Treasury Bond BuyWrite Strategy ETF', 'i': 'Fixed Income', 'm': 878206800}, {'s': 'TMAT', 'n': 'Northern Lights Fund Trust IV', 'i': 'Equity', 'm': 132060000}, {'s': 'TMDV', 'n': 'ProShares Russell US Dividend Growers ETF', 'i': 'Equity', 'm': 8356096.5}, {'s': 'TMET', 'n': 'iShares Transition-Enabling Metals ETF', 'i': 'Commodity', 'm': 13906300}, {'s': 'TMF', 'n': 'Direxion Daily 20+ Year Treasury Bull 3X Shares', 'i': 'Fixed Income', 'm': 4350860000}, {'s': 'TMFC', 'n': 'Motley Fool 100 Index ETF', 'i': 'Equity', 'm': 765060000}, {'s': 'TMFE', 'n': 'Motley Fool Capital Efficiency 100 Index ETF', 'i': 'Equity', 'm': 42094720}, {'s': 'TMFG', 'n': 'Motley Fool Global Opportunities ETF', 'i': 'Equity', 'm': 443195000}, {'s': 'TMFM', 'n': 'Motley Fool Mid-Cap Growth ETF', 'i': 'Equity', 'm': 195553470}, {'s': 'TMFS', 'n': 'Motley Fool Small-Cap Growth ETF', 'i': 'Equity', 'm': 83106000}, {'s': 'TMFX', 'n': 'Motley Fool Next Index ETF', 'i': 'Equity', 'm': 26082532}, {'s': 'TMSL', 'n': 'T. Rowe Price Small-Mid Cap ETF', 'i': 'Equity', 'm': 95566264}, {'s': 'TMV', 'n': 'Direxion Daily 20+ Year Treasury Bear 3x Shares', 'i': 'Fixed Income', 'm': 317471520}, {'s': 'TNA', 'n': 'Direxion Daily Small Cap Bull 3x

Shares', 'i': 'Equity', 'm': 2013141400}, {'s': 'TOK', 'n': 'iShares MSCI  
 Kokusai ETF', 'i': 'Equity', 'm': 207349150}, {'s': 'TOKE', 'n': 'Cambria  
 Cannabis ETF', 'i': 'Equity', 'm': 10274397}, {'s': 'TOLL', 'n': 'Tema  
 Monopolies and Oligopolies ETF', 'i': 'Equity', 'm': 7671975}, {'s': 'TOLZ',  
 'n': 'ProShares DJ Brookfield Global Infrastructure ETF', 'i': 'Equity', 'm':  
 135342880}, {'s': 'TOTL', 'n': 'SPDR DoubleLine Total Return Tactical ETF', 'i':  
 'Fixed Income', 'm': 2804496600}, {'s': 'TOTR', 'n': 'T. Rowe Price Total Return  
 ETF', 'i': 'Fixed Income', 'm': 111708690}, {'s': 'TOUS', 'n': 'T. Rowe Price  
 International Equity ETF', 'i': 'Equity', 'm': 81585320}, {'s': 'TPHD', 'n':  
 'Timothy Plan High Dividend Stock ETF', 'i': 'Equity', 'm': 232263000}, {'s':  
 'TPHE', 'n': 'Timothy Plan High Dividend Stock Enhanced ETF', 'i': 'Equity',  
 'm': 71014170}, {'s': 'TPIF', 'n': 'Timothy Plan International ETF', 'i':  
 'Equity', 'm': 102833500}, {'s': 'TPLC', 'n': 'Timothy Plan Fund Timothy Plan US  
 Large/Mid Cap Core Fund', 'i': 'Equity', 'm': 225390000}, {'s': 'TPLE', 'n':  
 'Timothy Plan US Large/Mid Cap Core Enhanced ETF', 'i': 'Equity', 'm':  
 72157000}, {'s': 'TPMN', 'n': 'Timothy Plan Market Neutral ETF', 'i':  
 'Alternatives', 'm': 40339970}, {'s': 'TPOR', 'n': 'Direxion Daily  
 Transportation Bull 3X Shares', 'i': 'Equity', 'm': 26742786}, {'s': 'TPSC',  
 'n': 'Timothy Plan US Small Cap Core ETF', 'i': 'Equity', 'm': 121095000}, {'s':  
 'TPYP', 'n': 'Tortoise North American Pipeline Fund', 'i': 'Equity', 'm':  
 477955400}, {'s': 'TQQQ', 'n': 'ProShares UltraPro QQQ', 'i': 'Equity', 'm':  
 21748361000}, {'s': 'TRES', 'n': 'Defiance Treasury Alternative Yield ETF', 'i':  
 'Fixed Income', 'm': 3081242.5}, {'s': 'TRFK', 'n': 'Pacer Data and Digital  
 Revolution ETF', 'i': 'Equity', 'm': 30651120}, {'s': 'TRFM', 'n': 'AAM  
 Transformers ETF', 'i': 'Equity', 'm': 37541250}, {'s': 'TRND', 'n': 'Pacer  
 Trendpilot Fund of Funds ETF', 'i': 'Equity', 'm': 51381000}, {'s': 'TRTY', 'n':  
 'Cambria Trinity ETF', 'i': 'Asset Allocation', 'm': 109985800}, {'s': 'TSDD',  
 'n': 'GraniteShares 2x Short TSLA Daily ETF', 'i': 'Equity', 'm': 4736725},  
 {'s': 'TSEC', 'n': 'Touchstone Securitized Income ETF', 'i': 'Fixed Income',  
 'm': 59093900}, {'s': 'TSL', 'n': 'GraniteShares 1.25x Long TSLA Daily ETF',  
 'i': 'Equity', 'm': 5762407}, {'s': 'TSLH', 'n': 'Innovator Hedged TSLA Strategy  
 ETF', 'i': 'Equity', 'm': 924800}, {'s': 'TSLI', 'n': 'Direxion Daily TSLA Bull  
 2X Shares', 'i': 'Equity', 'm': 795773000}, {'s': 'TSLP', 'n': 'Kurv Yield  
 Premium Strategy Tesla (TSLA) ETF', 'i': 'Equity', 'm': 1755549}, {'s': 'TSLQ',  
 'n': 'AXS TSLA Bear Daily ETF', 'i': 'Equity', 'm': 94035170}, {'s': 'TSLR',  
 'n': 'GraniteShares 2x Long TSLA Daily ETF', 'i': 'Equity', 'm': 14673912},  
 {'s': 'TSLS', 'n': 'Direxion Daily TSLA Bear 1X Shares', 'i': 'Equity', 'm':  
 57363776}, {'s': 'TSLT', 'n': 'T-REX 2X Long Tesla Daily Target ETF', 'i':  
 'Equity', 'm': 283973400}, {'s': 'TSLY', 'n': 'YieldMax TSLA Option Income  
 Strategy ETF', 'i': 'Equity', 'm': 710681600}, {'s': 'TSLZ', 'n': 'T-Rex 2X  
 Inverse Tesla Daily Target ETF', 'i': 'Equity', 'm': 30684654}, {'s': 'TSME',  
 'n': 'Thrivent Small-Mid Cap ESG ETF', 'i': 'Equity', 'm': 161756130}, {'s':  
 'TSPA', 'n': 'T. Rowe Price U.S. Equity Research ETF', 'i': 'Equity', 'm':  
 176068830}, {'s': 'TTAC', 'n': 'FCF US Quality ETF', 'i': 'Equity', 'm':  
 387400000}, {'s': 'TTAI', 'n': 'FCF International Quality ETF', 'i': 'Equity',  
 'm': 59636250}, {'s': 'TTT', 'n': 'ProShares UltraPro Short 20+ Year Treasury',  
 'i': 'Fixed Income', 'm': 43766020}, {'s': 'TUA', 'n': 'Simplify Short Term  
 Treasury Futures Strategy ETF', 'i': 'Fixed Income', 'm': 467282430}, {'s':

'TUG', 'n': 'STF Tactical Growth ETF', 'i': 'Asset Allocation', 'm': 186203700},  
 {'s': 'TUGN', 'n': 'STF Tactical Growth & Income ETF', 'i': 'Asset Allocation',  
 'm': 45915480}, {'s': 'TUR', 'n': 'iShares MSCI Turkey ETF', 'i': 'Equity', 'm':  
 233166820}, {'s': 'TUSI', 'n': 'Touchstone Ultra Short Income ETF', 'i': 'Fixed  
 Income', 'm': 78261150}, {'s': 'TVAL', 'n': 'T. Rowe Price Value ETF', 'i':  
 'Equity', 'm': 67719220}, {'s': 'TWIO', 'n': 'Trajan Wealth Income Opportunities  
 ETF', 'i': 'Asset Allocation', 'm': 32824040}, {'s': 'TWM', 'n': 'ProShares  
 UltraShort Russell2000', 'i': 'Equity', 'm': 60745844}, {'s': 'TXS', 'n': 'Texas  
 Capital Texas Equity Index ETF', 'i': 'Equity', 'm': 21677600}, {'s': 'TXSS',  
 'n': 'Texas Capital Texas Small Cap Equity Index ETF', 'i': 'Equity', 'm':  
 12000000}, {'s': 'TYA', 'n': 'Simplify Intermediate Term Treasury Futures  
 Strategy ETF', 'i': 'Alternatives', 'm': 40378012}, {'s': 'TYD', 'n': 'Direxion  
 Daily 7-10 Year Treasury Bull 3x Shares', 'i': 'Fixed Income', 'm': 40760900},  
 {'s': 'TYLD', 'n': 'Cambria Tactical Yield ETF', 'i': 'Fixed Income', 'm':  
 11323215}, {'s': 'TYLG', 'n': 'Global X Information Technology Covered Call &  
 Growth ETF', 'i': 'Equity', 'm': 8338972.5}, {'s': 'TYO', 'n': 'Direxion Daily  
 7-10 Year Treasury Bear 3x Shares', 'i': 'Fixed Income', 'm': 15082000}, {'s':  
 'TZA', 'n': 'Direxion Daily Small Cap Bear 3x Shares', 'i': 'Equity', 'm':  
 442134500}, {'s': 'UAE', 'n': 'iShares MSCI UAE ETF', 'i': 'Equity', 'm':  
 40077450}, {'s': 'UAPR', 'n': 'Innovator U.S. Equity Ultra Buffer ETF - April',  
 'i': 'Equity', 'm': 123854860}, {'s': 'UAUG', 'n': 'Innovator U.S. Equity Ultra  
 Buffer ETF - August', 'i': 'Equity', 'm': 210772260}, {'s': 'UBND', 'n':  
 'VictoryShares Core Plus Intermediate Bond ETF', 'i': 'Fixed Income', 'm':  
 313382750}, {'s': 'UBOT', 'n': 'Direxion Daily Robotics, Artificial Intelligence  
 & Automation Index Bull 2X Shares', 'i': 'Equity', 'm': 39156612}, {'s': 'UBR',  
 'n': 'ProShares Ultra MSCI Brazil Capped', 'i': 'Equity', 'm': 4381733}, {'s':  
 'UBT', 'n': 'ProShares Ultra 20+ Year Treasury', 'i': 'Fixed Income', 'm':  
 78499510}, {'s': 'UCC', 'n': 'ProShares Ultra Consumer Discretionary', 'i':  
 'Equity', 'm': 17640860}, {'s': 'UCO', 'n': 'ProShares Ultra Bloomberg Crude  
 Oil', 'i': 'Commodity', 'm': 585794200}, {'s': 'UCON', 'n': 'First Trust TCW  
 Unconstrained Plus Bond ETF', 'i': 'Fixed Income', 'm': 2223964200}, {'s':  
 'UCRD', 'n': 'VictoryShares Corporate Bond ETF', 'i': 'Fixed Income', 'm':  
 123350400}, {'s': 'UCYB', 'n': 'ProShares Ultra Nasdaq Cybersecurity ETF', 'i':  
 'Equity', 'm': 4096431}, {'s': 'UDEC', 'n': 'Innovator U.S. Equity Ultra Buffer  
 ETF - December', 'i': 'Equity', 'm': 90090090}, {'s': 'UDI', 'n': 'USCF Dividend  
 Income Fund', 'i': 'Equity', 'm': 5737705}, {'s': 'UDIV', 'n': 'Franklin U.S.  
 Core Dividend Tilt Index ETF Franklin LibertyQ Global Dividend', 'i': 'Equity',  
 'm': 61876000}, {'s': 'UDN', 'n': 'Invesco DB US Dollar Index Bearish Fund',  
 'i': 'Currency', 'm': 58074964}, {'s': 'UDOW', 'n': 'ProShares UltraPro Dow30',  
 'i': 'Equity', 'm': 612196000}, {'s': 'UEVM', 'n': 'VictoryShares Emerging  
 Markets Value Momentum ETF', 'i': 'Equity', 'm': 179728780}, {'s': 'UFEB', 'n':  
 'Innovator U.S. Equity Ultra Buffer ETF - February', 'i': 'Equity', 'm':  
 93691420}, {'s': 'UFIV', 'n': 'US Treasury 5 Year Note ETF', 'i': 'Fixed  
 Income', 'm': 17112312}, {'s': 'UFO', 'n': 'Procure Space ETF', 'i': 'Equity',  
 'm': 32516640}, {'s': 'UGA', 'n': 'United States Gasoline Fund LP', 'i':  
 'Commodity', 'm': 126932750}, {'s': 'UGE', 'n': 'ProShares Ultra Consumer  
 Staples', 'i': 'Equity', 'm': 6939072}, {'s': 'UGL', 'n': 'ProShares Ultra  
 Gold', 'i': 'Commodity', 'm': 246732880}, {'s': 'UITB', 'n': 'VictoryShares Core

Intermediate Bond ETF', 'i': 'Fixed Income', 'm': 1957374700}, {'s': 'UIVM', 'n': 'VictoryShares International Value Momentum ETF', 'i': 'Equity', 'm': 233744210}, {'s': 'UJAN', 'n': 'Innovator U.S. Equity Ultra Buffer ETF - January', 'i': 'Equity', 'm': 196975170}, {'s': 'UJB', 'n': 'ProShares Ultra High Yield', 'i': 'Fixed Income', 'm': 6701490}, {'s': 'UJUL', 'n': 'Innovator U.S. Equity Ultra Buffer ETF - July', 'i': 'Equity', 'm': 78804000}, {'s': 'UJUN', 'n': 'Innovator U.S. Equity Ultra Buffer ETF - June', 'i': 'Equity', 'm': 54346600}, {'s': 'ULE', 'n': 'ProShares Ultra Euro', 'i': 'Currency', 'm': 6729189}, {'s': 'ULST', 'n': 'SPDR SSgA Ultra Short Term Bond ETF', 'i': 'Fixed Income', 'm': 582682900}, {'s': 'ULTR', 'n': 'IQ Ultra Short Duration ETF', 'i': 'Fixed Income', 'm': 14374641}, {'s': 'ULTY', 'n': 'YieldMax Ultra Option Income Strategy ETF', 'i': 'Equity', 'm': 51150000}, {'s': 'ULVM', 'n': 'VictoryShares US Value Momentum ETF', 'i': 'Equity', 'm': 151552200}, {'s': 'UMAR', 'n': 'Innovator U.S. Equity Ultra Buffer ETF - March', 'i': 'Equity', 'm': 152720380}, {'s': 'UMAY', 'n': 'Innovator U.S. Equity Ultra Buffer ETF - May', 'i': 'Equity', 'm': 43971250}, {'s': 'UMDD', 'n': 'ProShares UltraPro MidCap400', 'i': 'Equity', 'm': 33288280}, {'s': 'UMI', 'n': 'USCF Midstream Energy Income Fund ETF', 'i': 'Equity', 'm': 252734430}, {'s': 'UMMA', 'n': 'Wahed Dow Jones Islamic World ETF', 'i': 'Equity', 'm': 84061870}, {'s': 'UNG', 'n': 'United States Natural Gas Fund LP', 'i': 'Commodity', 'm': 786231940}, {'s': 'UNII', 'n': 'WisdomTree Voya Yield Enhanced USD Universal Bond Fund ETF', 'i': 'Fixed Income', 'm': 1273972700}, {'s': 'UNL', 'n': 'United States 12 Month Natural Gas Fund LP', 'i': 'Commodity', 'm': 17182000}, {'s': 'UNOV', 'n': 'Innovator U.S. Equity Ultra Buffer ETF - November', 'i': 'Equity', 'm': 53897580}, {'s': 'UOCT', 'n': 'Innovator U.S. Equity Ultra Buffer ETF - October', 'i': 'Equity', 'm': 94807000}, {'s': 'UPAR', 'n': 'UPAR Ultra Risk Parity ETF', 'i': 'Alternatives', 'm': 85224620}, {'s': 'UPGD', 'n': 'Invesco Bloomberg Analyst Rating Improvers ETF', 'i': 'Equity', 'm': 112579330}, {'s': 'UPGR', 'n': 'Xtrackers US Green Infrastructure Select Equity ETF', 'i': 'Equity', 'm': 4291219}, {'s': 'UPRO', 'n': 'ProShares UltraPro S&P500', 'i': 'Equity', 'm': 3138381000}, {'s': 'UPV', 'n': 'ProShares Ultra FTSE Europe', 'i': 'Equity', 'm': 4562272.5}, {'s': 'UPW', 'n': 'ProShares Ultra Utilities', 'i': 'Equity', 'm': 11134124}, {'s': 'URA', 'n': 'Global X Uranium ETF', 'i': 'Equity', 'm': 3260616400}, {'s': 'URE', 'n': 'ProShares Ultra Real Estate', 'i': 'Equity', 'm': 58508100}, {'s': 'URNJ', 'n': 'Sprott Junior Uranium Miners ETF', 'i': 'Equity', 'm': 369611700}, {'s': 'URNM', 'n': 'Sprott Uranium Miners ETF', 'i': 'Equity', 'm': 1716426100}, {'s': 'URTH', 'n': 'iShares MSCI World ETF', 'i': 'Equity', 'm': 3377072600}, {'s': 'URTY', 'n': 'ProShares UltraPro Russell2000', 'i': 'Equity', 'm': 359655500}, {'s': 'USAI', 'n': 'Pacer American Energy Independence ETF', 'i': 'Equity', 'm': 53465000}, {'s': 'USBF', 'n': 'iShares USD Systematic Bond ETF', 'i': 'Fixed Income', 'm': 12324960}, {'s': 'USCA', 'n': 'Xtrackers MSCI USA Climate Action Equity ETF', 'i': 'Equity', 'm': 2025310700}, {'s': 'USCF', 'n': 'Themes US Cash Flow Champions ETF', 'i': 'Equity', 'm': 564214}, {'s': 'USCI', 'n': 'United States Commodity Index Fund', 'i': 'Commodity', 'm': 179185200}, {'s': 'USCL', 'n': 'iShares Climate Conscious & Transition MSCI USA ETF', 'i': 'Equity', 'm': 1973744400}, {'s': 'USD', 'n': 'ProShares Ultra Semiconductors', 'i': 'Equity', 'm': 818106750}, {'s': 'USDU', 'n': 'WisdomTree Bloomberg US Dollar Bullish Fund', 'i': 'Currency', 'm':



166046580}, {'s': 'USDY', 'n': 'SGI Enhanced Core ETF', 'i': 'Fixed Income',  
 'm': 1007200}, {'s': 'USE', 'n': 'USCF Energy Commodity Strategy Absolute Return  
 Fund', 'i': 'Alternatives', 'm': 3900800}, {'s': 'USEP', 'n': 'Innovator U.S.  
 Equity Ultra Buffer ETF - September', 'i': 'Equity', 'm': 61639124}, {'s':  
 'USFI', 'n': 'BrandywineGLOBAL - U.S. Fixed Income ETF', 'i': 'Fixed Income',  
 'm': 11750000}, {'s': 'USFR', 'n': 'WisdomTree Floating Rate Treasury Fund',  
 'i': 'Fixed Income', 'm': 17304105000}, {'s': 'USG', 'n': 'USCF Gold Strategy  
 Plus Income Fund ETF', 'i': 'Commodity', 'm': 3399500}, {'s': 'USHY', 'n':  
 'iShares Broad USD High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm':  
 11429935000}, {'s': 'USIG', 'n': 'iShares Broad USD Investment Grade Corporate  
 Bond ETF', 'i': 'Fixed Income', 'm': 10564569000}, {'s': 'USIN', 'n':  
 'WisdomTree 7-10 Year Laddered Treasury Fund', 'i': 'Fixed Income', 'm':  
 2919258}, {'s': 'USL', 'n': 'United States 12 Month Oil Fund LP', 'i':  
 'Commodity', 'm': 66180800}, {'s': 'USMC', 'n': 'Principal U.S. Mega-Cap ETF',  
 'i': 'Equity', 'm': 2253461200}, {'s': 'USMF', 'n': 'WisdomTree U.S. Multifactor  
 Fund', 'i': 'Equity', 'm': 288466850}, {'s': 'USMV', 'n': 'iShares MSCI USA Min  
 Vol Factor ETF', 'i': 'Equity', 'm': 23786885000}, {'s': 'USNZ', 'n': 'Xtrackers  
 Net Zero Pathway Paris Aligned US Equity ETF', 'i': 'Equity', 'm': 187168830},  
 {'s': 'USO', 'n': 'United States Oil Fund LP', 'i': 'Commodity', 'm':  
 1429803400}, {'s': 'USOI', 'n': 'Credit Suisse X-Links Crude Oil Shares Covered  
 Call ETN', 'i': 'Commodity', 'm': 361275680}, {'s': 'USPX', 'n': 'Franklin U.S.  
 Equity Index ETF', 'i': 'Equity', 'm': 1102162600}, {'s': 'USRD', 'n': 'Themes  
 US R&D Champions ETF', 'i': 'Equity', 'm': 582846}, {'s': 'USRT', 'n': 'iShares  
 Core U.S. REIT ETF', 'i': 'Equity', 'm': 2235411000}, {'s': 'USSE', 'n': 'Segall  
 Bryant & Hamill Select Equity ETF', 'i': 'Equity', 'm': 127029200}, {'s':  
 'USSG', 'n': 'Xtrackers MSCI USA ESG Leaders Equity ETF', 'i': 'Equity', 'm':  
 1078076400}, {'s': 'USSH', 'n': 'WisdomTree 1-3 Year Laddered Treasury Fund',  
 'i': 'Fixed Income', 'm': 498209}, {'s': 'UST', 'n': 'ProShares Ultra 7-10 Year  
 Treasury', 'i': 'Fixed Income', 'm': 14098322}, {'s': 'USTB', 'n':  
 'VictoryShares Short-Term Bond ETF', 'i': 'Fixed Income', 'm': 589561600}, {'s':  
 'USVM', 'n': 'VictoryShares US Small Mid Cap Value Momentum ETF', 'i': 'Equity',  
 'm': 220288750}, {'s': 'USVN', 'n': 'US Treasury 7 Year Note ETF', 'i': 'Fixed  
 Income', 'm': 5139398}, {'s': 'USVT', 'n': 'US Value ETF', 'i': 'Equity', 'm':  
 6134000}, {'s': 'USXF', 'n': 'iShares ESG Advanced MSCI USA ETF', 'i': 'Equity',  
 'm': 977530940}, {'s': 'UTEN', 'n': 'US Treasury 10 Year Note ETF', 'i': 'Fixed  
 Income', 'm': 99859030}, {'s': 'UTES', 'n': 'Virtus Reaves Utilities ETF', 'i':  
 'Equity', 'm': 59932692}, {'s': 'UTHY', 'n': 'US Treasury 30 Year Bond ETF',  
 'i': 'Fixed Income', 'm': 20964748}, {'s': 'UTRE', 'n': 'US Treasury 3 Year Note  
 ETF', 'i': 'Fixed Income', 'm': 6287931}, {'s': 'UTRN', 'n': 'Vesper U.S. Large  
 Cap Short-Term Reversal Strategy ETF', 'i': 'Equity', 'm': 21418458}, {'s':  
 'UTSL', 'n': 'Direxion Daily Utilities Bull 3X Shares', 'i': 'Equity', 'm':  
 40104320}, {'s': 'UTWO', 'n': 'US Treasury 2 Year Note ETF', 'i': 'Fixed  
 Income', 'm': 333818800}, {'s': 'UTWY', 'n': 'US Treasury 20 Year Bond ETF',  
 'i': 'Fixed Income', 'm': 18538296}, {'s': 'UUP', 'n': 'Invesco DB US Dollar  
 Index Bullish Fund', 'i': 'Currency', 'm': 379096900}, {'s': 'UVIX', 'n': '2x  
 Long VIX Futures ETF', 'i': 'Alternatives', 'm': 67148010}, {'s': 'UVXY', 'n':  
 'ProShares Ultra VIX Short-Term Futures ETF', 'i': 'Alternatives', 'm':  
 288105500}, {'s': 'UWM', 'n': 'ProShares Ultra Russell2000', 'i': 'Equity', 'm':

212832110}, {'s': 'UXI', 'n': 'ProShares Ultra Industrials', 'i': 'Equity', 'm': 24203160}, {'s': 'UYG', 'n': 'ProShares Ultra Financials', 'i': 'Equity', 'm': 665676500}, {'s': 'UYLD', 'n': 'Angel Oak UltraShort Income ETF', 'i': 'Fixed Income', 'm': 391388960}, {'s': 'UYM', 'n': 'ProShares Ultra Materials', 'i': 'Equity', 'm': 45623336}, {'s': 'VABS', 'n': 'Virtus Newfleet ABS/MBS ETF', 'i': 'Fixed Income', 'm': 9552496}, {'s': 'VALQ', 'n': 'American Century U.S. Quality Value ETF', 'i': 'Equity', 'm': 212089870}, {'s': 'VAMO', 'n': 'Cambria Value & Momentum ETF', 'i': 'Equity', 'm': 63882616}, {'s': 'VAW', 'n': 'Vanguard Materials ETF', 'i': 'Equity', 'm': 2997204200}, {'s': 'VB', 'n': 'Vanguard Small-Cap ETF', 'i': 'Equity', 'm': 53806895000}, {'s': 'VBK', 'n': 'Vanguard Small-Cap Growth ETF', 'i': 'Equity', 'm': 16993514000}, {'s': 'VBND', 'n': 'Vident U.S. Bond Strategy ETF', 'i': 'Fixed Income', 'm': 412291200}, {'s': 'VBR', 'n': 'Vanguard Small Cap Value ETF', 'i': 'Equity', 'm': 27919708000}, {'s': 'VCAR', 'n': 'Simplify Volt RoboCar Disruption and Tech ETF', 'i': 'Equity', 'm': 5158010.5}, {'s': 'VCEB', 'n': 'Vanguard ESG U.S. Corporate Bond ETF', 'i': 'Fixed Income', 'm': 545214000}, {'s': 'VCIT', 'n': 'Vanguard Intermediate-Term Corporate Bond ETF', 'i': 'Fixed Income', 'm': 45986587000}, {'s': 'VCLN', 'n': 'Virtus Duff & Phelps Clean Energy ETF', 'i': 'Equity', 'm': 5260870}, {'s': 'VCLT', 'n': 'Vanguard Long-Term Corporate Bond ETF', 'i': 'Fixed Income', 'm': 8450936300}, {'s': 'VCR', 'n': 'Vanguard Consumer Discretionary ETF', 'i': 'Equity', 'm': 5394190000}, {'s': 'VCRB', 'n': 'Vanguard Core Bond ETF', 'i': 'Fixed Income', 'm': 152184000}, {'s': 'VCSH', 'n': 'Vanguard Short-Term Corporate Bond ETF', 'i': 'Fixed Income', 'm': 34984976000}, {'s': 'VDC', 'n': 'Vanguard Consumer Staples ETF', 'i': 'Equity', 'm': 6411523600}, {'s': 'VDE', 'n': 'Vanguard Energy ETF', 'i': 'Equity', 'm': 9140360000}, {'s': 'VEA', 'n': 'Vanguard FTSE Developed Markets ETF', 'i': 'Equity', 'm': 129876120000}, {'s': 'VEGA', 'n': 'AdvisorShares STAR Global Buy-Write ETF', 'i': 'Asset Allocation', 'm': 57833744}, {'s': 'VEGI', 'n': 'iShares MSCI Agriculture Producers ETF', 'i': 'Equity', 'm': 132415490}, {'s': 'VEGN', 'n': 'US Vegan Climate ETF', 'i': 'Equity', 'm': 92945880}, {'s': 'VEMY', 'n': 'Virtus Stone Harbor Emerging Markets High Yield Bond ETF', 'i': 'Fixed Income', 'm': 9349657}, {'s': 'VERS', 'n': 'ProShares Metaverse ETF', 'i': 'Equity', 'm': 5324932}, {'s': 'VETZ', 'n': 'Academy Veteran Impact ETF', 'i': 'Fixed Income', 'm': 50999000}, {'s': 'VEU', 'n': 'Vanguard FTSE All-World ex-US Index Fund', 'i': 'Equity', 'm': 38588040000}, {'s': 'VFH', 'n': 'Vanguard Financials ETF', 'i': 'Equity', 'm': 8938480000}, {'s': 'VFL0', 'n': 'VictoryShares Free Cash Flow ETF', 'i': 'Equity', 'm': 277055460}, {'s': 'VFMF', 'n': 'Vanguard U.S. Multifactor ETF', 'i': 'Equity', 'm': 263620500}, {'s': 'VFM0', 'n': 'Vanguard U.S. Momentum Factor ETF', 'i': 'Equity', 'm': 526185600}, {'s': 'VFMV', 'n': 'Vanguard U.S. Minimum Volatility ETF', 'i': 'Equity', 'm': 97367050}, {'s': 'VFQY', 'n': 'Vanguard U.S. Quality Factor ETF', 'i': 'Equity', 'm': 337059800}, {'s': 'VFVA', 'n': 'Vanguard U.S. Value Factor ETF', 'i': 'Equity', 'm': 684071360}, {'s': 'VGIT', 'n': 'Vanguard Intermediate-Term Treasury ETF', 'i': 'Fixed Income', 'm': 25944828000}, {'s': 'VGK', 'n': 'Vanguard FTSE Europe ETF', 'i': 'Equity', 'm': 18929265000}, {'s': 'VGLT', 'n': 'Vanguard Long-Term Treasury ETF', 'i': 'Fixed Income', 'm': 11797341000}, {'s': 'VGSH', 'n': 'Vanguard Short-Term Treasury ETF', 'i': 'Fixed Income', 'm': 19334519000}, {'s': 'VGSR', 'n': 'Vert Global Sustainable Real Estate ETF', 'i': 'Equity',

'm': 341461150}, {'s': 'VGT', 'n': 'Vanguard Information Technology ETF', 'i':  
 'Equity', 'm': 66092737000}, {'s': 'VHT', 'n': 'Vanguard Health Care ETF', 'i':  
 'Equity', 'm': 17056263000}, {'s': 'VICE', 'n': 'AdvisorShares Vice ETF', 'i':  
 'Equity', 'm': 7268216.5}, {'s': 'VIDI', 'n': 'Vident International Equity  
 Strategy ETF', 'i': 'Equity', 'm': 376138000}, {'s': 'VIG', 'n': 'Vanguard  
 Dividend Appreciation ETF', 'i': 'Equity', 'm': 76948414000}, {'s': 'VIGI', 'n':  
 'Vanguard International Dividend Appreciation ETF', 'i': 'Equity', 'm':  
 6482499600}, {'s': 'VIOG', 'n': 'Vanguard S&P Small-Cap 600 Growth ETF', 'i':  
 'Equity', 'm': 826804000}, {'s': 'VIOO', 'n': 'Vanguard S&P Small-Cap 600 ETF',  
 'i': 'Equity', 'm': 2558857200}, {'s': 'VIOV', 'n': 'Vanguard S&P Small-Cap 600  
 Value ETF', 'i': 'Equity', 'm': 1314008300}, {'s': 'VIRS', 'n': 'Pacer BioThreat  
 Strategy ETF', 'i': 'Equity', 'm': 3516670}, {'s': 'VIS', 'n': 'Vanguard  
 Industrials ETF', 'i': 'Equity', 'm': 5267860500}, {'s': 'VIXM', 'n': 'ProShares  
 VIX Mid-Term Futures ETF', 'i': 'Alternatives', 'm': 87861624}, {'s': 'VIXY',  
 'n': 'ProShares VIX Short-Term Futures ETF', 'i': 'Alternatives', 'm':  
 150265980}, {'s': 'VLU', 'n': 'SPDR S&P 1500 Value Tilt ETF', 'i': 'Equity',  
 'm': 339304600}, {'s': 'VLUE', 'n': 'iShares MSCI USA Value Factor ETF', 'i':  
 'Equity', 'm': 7076878300}, {'s': 'VMAX', 'n': 'Hartford US Value ETF', 'i':  
 'Equity', 'm': 5775525}, {'s': 'VMBS', 'n': 'Vanguard Mortgage-Backed Securities  
 ETF', 'i': 'Fixed Income', 'm': 17120208000}, {'s': 'VMOT', 'n': 'Alpha  
 Architect Value Momentum Trend ETF', 'i': 'Equity', 'm': 27313200}, {'s':  
 'VNAM', 'n': 'Global X MSCI Vietnam ETF', 'i': 'Equity', 'm': 13023985}, {'s':  
 'VNLA', 'n': 'Janus Henderson Short Duration Income ETF', 'i': 'Fixed Income',  
 'm': 2277285000}, {'s': 'VNM', 'n': 'VanEck Vietnam ETF', 'i': 'Equity', 'm':  
 543593300}, {'s': 'VNMC', 'n': 'Natixis Vaughan Nelson Mid Cap ETF', 'i':  
 'Equity', 'm': 4306575.5}, {'s': 'VNQ', 'n': 'Vanguard Real Estate ETF', 'i':  
 'Equity', 'm': 32364712000}, {'s': 'VNQI', 'n': 'Vanguard Global ex-U.S. Real  
 Estate ETF', 'i': 'Equity', 'm': 3497407200}, {'s': 'VNSE', 'n': 'Natixis  
 Vaughan Nelson Select ETF', 'i': 'Equity', 'm': 33996360}, {'s': 'VO', 'n':  
 'Vanguard Mid-Cap ETF', 'i': 'Equity', 'm': 63590294000}, {'s': 'VOE', 'n':  
 'Vanguard Mid-Cap Value ETF', 'i': 'Equity', 'm': 16062707000}, {'s': 'VONE',  
 'n': 'Vanguard Russell 1000 ETF', 'i': 'Equity', 'm': 4640791600}, {'s': 'VONG',  
 'n': 'Vanguard Russell 1000 Growth ETF', 'i': 'Equity', 'm': 19389671000}, {'s':  
 'VONV', 'n': 'Vanguard Russell 1000 Value ETF', 'i': 'Equity', 'm': 8233860000},  
 {'s': 'VOO', 'n': 'Vanguard S&P 500 ETF', 'i': 'Equity', 'm': 436045200000},  
 {'s': 'VOOG', 'n': 'Vanguard S&P 500 Growth ETF', 'i': 'Equity', 'm':  
 10262083000}, {'s': 'VOOV', 'n': 'Vanguard S&P 500 Value ETF', 'i': 'Equity',  
 'm': 4475173400}, {'s': 'VOT', 'n': 'Vanguard Mid-Cap Growth ETF', 'i':  
 'Equity', 'm': 13098480000}, {'s': 'VOTE', 'n': 'TCW Transform 500 ETF', 'i':  
 'Equity', 'm': 600378200}, {'s': 'VOX', 'n': 'Vanguard Communication Services  
 ETF', 'i': 'Equity', 'm': 4051873000}, {'s': 'VPC', 'n': 'Virtus Private Credit  
 Strategy ETF', 'i': 'Asset Allocation', 'm': 37847188}, {'s': 'VPL', 'n':  
 'Vanguard FTSE Pacific ETF', 'i': 'Equity', 'm': 7126464000}, {'s': 'VPLS', 'n':  
 'Vanguard Core Plus Bond ETF', 'i': 'Fixed Income', 'm': 117046350}, {'s':  
 'VPU', 'n': 'Vanguard Utilities ETF', 'i': 'Equity', 'm': 5107831000}, {'s':  
 'VRAI', 'n': 'Virtus Real Asset Income ETF', 'i': 'Equity', 'm': 16779796},  
 {'s': 'VRIG', 'n': 'Invesco Variable Rate Investment Grade ETF', 'i': 'Fixed  
 Income', 'm': 843749000}, {'s': 'VRP', 'n': 'Invesco Variable Rate Preferred

ETF', 'i': 'Fixed Income', 'm': 1610156400}, {'s': 'VSDA', 'n': 'VictoryShares Dividend Accelerator ETF', 'i': 'Equity', 'm': 244131500}, {'s': 'VSGX', 'n': 'Vanguard ESG International Stock ETF', 'i': 'Equity', 'm': 3764880100}, {'s': 'VSHY', 'n': 'Virtus Newfleet Short Duration High Yield Bond ETF', 'i': 'Fixed Income', 'm': 3294522}, {'s': 'VSLU', 'n': 'Applied Finance Valuation Large Cap ETF', 'i': 'Equity', 'm': 110764500}, {'s': 'VSMV', 'n': 'VictoryShares US Multi-Factor Minimum Volatility ETF', 'i': 'Equity', 'm': 132201300}, {'s': 'VSS', 'n': 'Vanguard FTSE All-World ex-US Small-Cap ETF', 'i': 'Equity', 'm': 8377940000}, {'s': 'VT', 'n': 'Vanguard Total World Stock ETF', 'i': 'Equity', 'm': 35642757000}, {'s': 'VTC', 'n': 'Vanguard Total Corporate Bond ETF', 'i': 'Fixed Income', 'm': 966492200}, {'s': 'VTEB', 'n': 'Vanguard Tax-Exempt Bond ETF', 'i': 'Fixed Income', 'm': 32083747000}, {'s': 'VTEC', 'n': 'Vanguard California Tax-Exempt Bond ETF', 'i': 'Fixed Income', 'm': 52022250}, {'s': 'VTEI', 'n': 'Vanguard Intermediate-Term Tax-Exempt Bond ETF', 'i': 'Fixed Income', 'm': 61981250}, {'s': 'VTES', 'n': 'Vanguard Short-Term Tax Exempt Bond ETF', 'i': 'Fixed Income', 'm': 410287000}, {'s': 'VTHR', 'n': 'Vanguard Russell 3000 ETF', 'i': 'Equity', 'm': 2342488600}, {'s': 'VTI', 'n': 'Vanguard Total Stock Market ETF', 'i': 'Equity', 'm': 385922730000}, {'s': 'VTIP', 'n': 'Vanguard Short-Term Inflation-Protected Securities ETF', 'i': 'Fixed Income', 'm': 10854536000}, {'s': 'VTV', 'n': 'Vanguard Value ETF', 'i': 'Equity', 'm': 111471590000}, {'s': 'VTWG', 'n': 'Vanguard Russell 2000 Growth ETF', 'i': 'Equity', 'm': 907467970}, {'s': 'VTWO', 'n': 'Vanguard Russell 2000 ETF', 'i': 'Equity', 'm': 9411856000}, {'s': 'VTWV', 'n': 'Vanguard Russell 2000 Value ETF', 'i': 'Equity', 'm': 786123000}, {'s': 'VUG', 'n': 'Vanguard Growth ETF', 'i': 'Equity', 'm': 119365810000}, {'s': 'VUSB', 'n': 'Vanguard Ultra-Short Bond ETF', 'i': 'Fixed Income', 'm': 4197217500}, {'s': 'VUSE', 'n': 'Vident U.S. Equity Strategy ETF', 'i': 'Equity', 'm': 564995900}, {'s': 'VV', 'n': 'Vanguard Large-Cap ETF', 'i': 'Equity', 'm': 34245106000}, {'s': 'VWI', 'n': 'Arch Indices VOI Absolute Income Fund', 'i': 'Asset Allocation', 'm': 2116448}, {'s': 'VWID', 'n': 'Virtus WMC International Dividend ETF', 'i': 'Equity', 'm': 9350007}, {'s': 'VWO', 'n': 'Vanguard FTSE Emerging Markets ETF', 'i': 'Equity', 'm': 77264200000}, {'s': 'VWOB', 'n': 'Vanguard Emerging Markets Government Bond ETF', 'i': 'Fixed Income', 'm': 4647417300}, {'s': 'VXF', 'n': 'Vanguard Extended Market ETF', 'i': 'Equity', 'm': 17973174000}, {'s': 'VXUS', 'n': 'Vanguard Total International Stock ETF', 'i': 'Equity', 'm': 68979420000}, {'s': 'VYM', 'n': 'Vanguard High Dividend Yield Index ETF', 'i': 'Equity', 'm': 53392360000}, {'s': 'VYMI', 'n': 'Vanguard International High Dividend Yield ETF', 'i': 'Equity', 'm': 7327747600}, {'s': 'WABF', 'n': 'Western Asset Bond ETF', 'i': 'Fixed Income', 'm': 40064000}, {'s': 'WANT', 'n': 'Direxion Daily Consumer Discretionary Bull 3x Shares', 'i': 'Equity', 'm': 26485634}, {'s': 'WBAT', 'n': 'WisdomTree Battery Value Chain and Innovation Fund', 'i': 'Equity', 'm': 4313325}, {'s': 'WBIF', 'n': 'WBI BullBear Value 3000 ETF', 'i': 'Equity', 'm': 37025620}, {'s': 'WBIG', 'n': 'WBI BullBear Yield 3000 ETF', 'i': 'Equity', 'm': 47603716}, {'s': 'WBIL', 'n': 'WBI BullBear Quality 3000 ETF', 'i': 'Equity', 'm': 43551908}, {'s': 'WBIY', 'n': 'WBI Power Factor High Dividend ETF', 'i': 'Equity', 'm': 63296000}, {'s': 'WBND', 'n': 'Western Asset Total Return ETF', 'i': 'Fixed Income', 'm': 37188380}, {'s': 'WCBR', 'n': 'WisdomTree Cybersecurity Fund', 'i': 'Equity', 'm': 103684430}, {'s': 'WCEO',

'n': 'Hypatia Women CEO ETF', 'i': 'Equity', 'm': 2828000}, {'s': 'WCLD', 'n': 'WisdomTree Cloud Computing Fund', 'i': 'Equity', 'm': 600349300}, {'s': 'WDIV', 'n': 'SPDR S&P Global Dividend ETF', 'i': 'Equity', 'm': 196893980}, {'s': 'WDNA', 'n': 'WisdomTree BioRevolution Fund', 'i': 'Equity', 'm': 2463405}, {'s': 'WEAT', 'n': 'Teucrium Wheat Fund', 'i': 'Commodity', 'm': 143374020}, {'s': 'WEBL', 'n': 'Direxion Daily Dow Jones Internet Bull 3X Shares', 'i': 'Equity', 'm': 188860820}, {'s': 'WEBS', 'n': 'Direxion Daily Dow Jones Internet Bear 3X Shares', 'i': 'Equity', 'm': 17592712}, {'s': 'WEED', 'n': 'Roundhill Cannabis ETF', 'i': 'Equity', 'm': 7379610}, {'s': 'WEIX', 'n': 'Dynamic Short Short-Term Volatility Futures ETF', 'i': 'Alternatives', 'm': 7266903}, {'s': 'WFH', 'n': 'Direxion Work From Home ETF', 'i': 'Equity', 'm': 28078556}, {'s': 'WFHY', 'n': 'WisdomTree U.S. High Yield Corporate Bond Fund', 'i': 'Fixed Income', 'm': 227752220}, {'s': 'WFIG', 'n': 'WisdomTree U.S. Corporate Bond Fund', 'i': 'Fixed Income', 'm': 13053330}, {'s': 'WGMI', 'n': 'Valkyrie Bitcoin Miners ETF', 'i': 'Equity', 'm': 83472000}, {'s': 'WINC', 'n': 'Western Asset Short Duration Income ETF', 'i': 'Fixed Income', 'm': 10678051}, {'s': 'WINN', 'n': 'Harbor Long-Term Growers ETF', 'i': 'Equity', 'm': 388502750}, {'s': 'WIP', 'n': 'SPDR FTSE International Government Inflation-Protected Bond ETF', 'i': 'Fixed Income', 'm': 398802700}, {'s': 'WISE', 'n': 'Themes Generative Artificial Intelligence ETF', 'i': 'Equity', 'm': 19550600}, {'s': 'WLDR', 'n': 'Affinity World Leaders Equity ETF', 'i': 'Equity', 'm': 32319000}, {'s': 'WLTG', 'n': 'WealthTrust DBS Long Term Growth ETF', 'i': 'Asset Allocation', 'm': 25496250}, {'s': 'WNDY', 'n': 'Global X Wind Energy ETF', 'i': 'Equity', 'm': 2516129}, {'s': 'WOMN', 'n': 'Tidal Trust III YWCA WOMENS EMPOWERMENT ETF', 'i': 'Equity', 'm': 53361360}, {'s': 'WOOD', 'n': 'iShares Global Timber & Forestry ETF', 'i': 'Equity', 'm': 203664620}, {'s': 'WPS', 'n': 'iShares International Developed Property ETF', 'i': 'Equity', 'm': 35920430}, {'s': 'WRND', 'n': 'IQ Global Equity R&D Leaders ETF', 'i': 'Equity', 'm': 6430950}, {'s': 'WTAI', 'n': 'WisdomTree Artificial Intelligence and Innovation Fund', 'i': 'Equity', 'm': 245148270}, {'s': 'WTBN', 'n': 'WisdomTree Bianco Total Return Fund', 'i': 'Fixed Income', 'm': 3899232}, {'s': 'WTMF', 'n': 'WisdomTree Managed Futures Strategy Fund', 'i': 'Alternatives', 'm': 193381760}, {'s': 'WTRE', 'n': 'WisdomTree New Economy Real Estate Fund', 'i': 'Equity', 'm': 19045840}, {'s': 'WTV', 'n': 'WisdomTree US Value Fund of Benef Interest', 'i': 'Equity', 'm': 279447800}, {'s': 'WUGI', 'n': 'AXS Esoterica NextG Economy ETF', 'i': 'Equity', 'm': 31339238}, {'s': 'WWJD', 'n': 'Inspire International ETF', 'i': 'Equity', 'm': 291746000}, {'s': 'WZRD', 'n': 'Opportunistic Trader ETF', 'i': 'Asset Allocation', 'm': 24966600}, {'s': 'XAR', 'n': 'SPDR S&P Aerospace & Defense ETF', 'i': 'Equity', 'm': 2036798200}, {'s': 'XAUG', 'n': 'FT Vest U.S. Equity Enhance & Moderate Buffer ETF - August', 'i': 'Equity', 'm': 12923265}, {'s': 'XB', 'n': 'BondBloxx B-Rated USD High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 13616890}, {'s': 'XBAP', 'n': 'Innovator U.S. Equity Accelerated 9 Buffer ETF - April', 'i': 'Equity', 'm': 72210780}, {'s': 'XBB', 'n': 'BondBloxx BB-Rated USD High Yield Corporate Bond ETF', 'i': 'Fixed Income', 'm': 57316760}, {'s': 'XBI', 'n': 'SPDR S&P BIOTECH ETF', 'i': 'Equity', 'm': 6722316000}, {'s': 'XBIL', 'n': 'US Treasury 6 Month Bill ETF', 'i': 'Fixed Income', 'm': 514543700}, {'s': 'XBJA', 'n': 'Innovator U.S. Equity Accelerated 9 Buffer ETF - January', 'i': 'Equity', 'm': 94015600}, {'s':

'XBJL', 'n': 'Innovator U.S. Equity Accelerated 9 Buffer ETF - July', 'i':  
 'Equity', 'm': 76158240}, {'s': 'XBOC', 'n': 'Innovator U.S. Equity Accelerated  
 9 Buffer ETF - October', 'i': 'Equity', 'm': 71767750}, {'s': 'XC', 'n':  
 'WisdomTree Emerging Markets Ex-China Fund', 'i': 'Equity', 'm': 43198680},  
 {'s': 'XCCC', 'n': 'BondBloxx CCC-Rated USD High Yield Corporate Bond ETF', 'i':  
 'Fixed Income', 'm': 58764530}, {'s': 'XCEM', 'n': 'Columbia EM Core ex-China  
 ETF', 'i': 'Equity', 'm': 974610000}, {'s': 'XCLR', 'n': 'Global X S&P 500  
 Collar 95-110 ETF', 'i': 'Equity', 'm': 2653298.8}, {'s': 'XCOR', 'n': 'FundX  
 ETF', 'i': 'Equity', 'm': 153835820}, {'s': 'XDAP', 'n': 'Innovator US Equity  
 Accelerated ETF', 'i': 'Equity', 'm': 6185420}, {'s': 'XDAT', 'n': 'Franklin  
 Exponential Data ETF Franklin Exponential Data Fund', 'i': 'Equity', 'm':  
 6666000}, {'s': 'XDEC', 'n': 'FT Vest U.S. Equity Enhance & Moderate Buffer ETF  
 - December', 'i': 'Equity', 'm': 371961400}, {'s': 'XDJA', 'n': 'Innovator U.S.  
 Equity Accelerated ETF - January', 'i': 'Equity', 'm': 9128980}, {'s': 'XDJL',  
 'n': 'Innovator U.S. Equity Accelerated ETF - July', 'i': 'Equity', 'm':  
 10280595}, {'s': 'XDOC', 'n': 'Innovator U.S. Equity Accelerated ETF - October',  
 'i': 'Equity', 'm': 7118050}, {'s': 'XDQQ', 'n': 'Innovator Growth Accelerated  
 ETF - Quarterly', 'i': 'Equity', 'm': 32147776}, {'s': 'XDSQ', 'n': 'Innovator  
 US Equity Accelerated ETF', 'i': 'Equity', 'm': 57360360}, {'s': 'XDTE', 'n':  
 'Roundhill S&P 500 ODTE Covered Call Strategy ETF', 'i': 'Equity', 'm':  
 5485798.5}, {'s': 'XEMD', 'n': 'BondBloxx JP Morgan USD Emerging Markets 1-10  
 Year Bond ETF', 'i': 'Fixed Income', 'm': 220122000}, {'s': 'XES', 'n': 'SPDR  
 S&P Oil & Gas Equipment & Services ETF', 'i': 'Equity', 'm': 332210900}, {'s':  
 'XFEB', 'n': 'FT Vest U.S. Equity Enhance & Moderate Buffer ETF - February',  
 'i': 'Equity', 'm': 33518160}, {'s': 'XFIV', 'n': 'BondBloxx Bloomberg Five Year  
 Target Duration US Treasury ETF', 'i': 'Fixed Income', 'm': 77342030}, {'s':  
 'XFIX', 'n': 'F/m Opportunistic Income ETF', 'i': 'Fixed Income', 'm':  
 28413448}, {'s': 'XFLX', 'n': 'FundX Flexible ETF', 'i': 'Fixed Income', 'm':  
 60716240}, {'s': 'XHB', 'n': 'SPDR S&P Homebuilders ETF', 'i': 'Equity', 'm':  
 1830416800}, {'s': 'XHE', 'n': 'SPDR S&P Health Care Equipment ETF', 'i':  
 'Equity', 'm': 274880300}, {'s': 'XHLF', 'n': 'BondBloxx Bloomberg Six Month  
 Target Duration US Treasury ETF', 'i': 'Fixed Income', 'm': 1156958800}, {'s':  
 'XHS', 'n': 'SPDR S&P Health Care Services ETF', 'i': 'Equity', 'm': 80410480},  
 {'s': 'XHYC', 'n': 'BondBloxx USD High Yield Bond Consumer Cyclical Sector  
 ETF', 'i': 'Fixed Income', 'm': 46019876}, {'s': 'XHYD', 'n': 'BondBloxx USD  
 High Yield Bond Consumer Non-Cyclical Sector ETF', 'i': 'Fixed Income', 'm':  
 11115780}, {'s': 'XHYE', 'n': 'BondBloxx USD High Yield Bond Energy Sector ETF',  
 'i': 'Fixed Income', 'm': 58143596}, {'s': 'XHYF', 'n': 'BondBloxx USD High  
 Yield Bond Financial & REIT Sector ETF', 'i': 'Fixed Income', 'm': 43878000},  
 {'s': 'XHYH', 'n': 'BondBloxx USD High Yield Bond Healthcare Sector ETF', 'i':  
 'Fixed Income', 'm': 30443130}, {'s': 'XHYI', 'n': 'BondBloxx USD High Yield  
 Bond Industrial Sector ETF', 'i': 'Fixed Income', 'm': 61711320}, {'s': 'XHYT',  
 'n': 'BondBloxx USD High Yield Bond Telecom, Media & Technology Sector ETF',  
 'i': 'Fixed Income', 'm': 34905464}, {'s': 'XIDE', 'n': 'FT Vest U.S. Equity  
 Buffer & Premium Income ETF - December', 'i': 'Equity', 'm': 22711560}, {'s':  
 'XIMR', 'n': 'FT Vest U.S. Equity Buffer & Premium Income ETF - March', 'i':  
 'Equity', 'm': 10027937}, {'s': 'XISE', 'n': 'FT Vest U.S. Equity Buffer &  
 Premium Income ETF - September', 'i': 'Equity', 'm': 56476860}, {'s': 'XITK',

'n': 'SPDR FactSet Innovative Technology ETF', 'i': 'Equity', 'm': 97314320},  
 {'s': 'XJAN', 'n': 'FT Vest U.S. Equity Enhance & Moderate Buffer ETF -  
 January', 'i': 'Equity', 'm': 87194310}, {'s': 'XJH', 'n': 'iShares ESG Screened  
 S&P Mid-Cap ETF', 'i': 'Equity', 'm': 176307490}, {'s': 'XJR', 'n': 'iShares ESG  
 Screened S&P Small-Cap ETF', 'i': 'Equity', 'm': 69406056}, {'s': 'XJUL', 'n':  
 'FT Vest U.S. Equity Enhance & Moderate Buffer ETF - July', 'i': 'Equity', 'm':  
 45710570}, {'s': 'XJUN', 'n': 'FT Vest U.S. Equity Enhance & Moderate Buffer ETF  
 - June', 'i': 'Equity', 'm': 198583790}, {'s': 'XLB', 'n': 'Materials Select  
 Sector SPDR Fund', 'i': 'Equity', 'm': 5847410000}, {'s': 'XLC', 'n':  
 'Communication Services Select Sector SPDR Fund', 'i': 'Equity', 'm':  
 18337198000}, {'s': 'XLE', 'n': 'Energy Select Sector SPDR Fund', 'i': 'Equity',  
 'm': 41832870000}, {'s': 'XLF', 'n': 'Financial Select Sector SPDR Fund', 'i':  
 'Equity', 'm': 37699270000}, {'s': 'XLG', 'n': 'Invesco S&P 500 Top 50 ETF',  
 'i': 'Equity', 'm': 4157422300}, {'s': 'XLI', 'n': 'Industrial Select Sector  
 SPDR Fund', 'i': 'Equity', 'm': 18176810000}, {'s': 'XLK', 'n': 'Technology  
 Select Sector SPDR Fund', 'i': 'Equity', 'm': 65730322000}, {'s': 'XLP', 'n':  
 'Consumer Staples Select Sector SPDR Fund', 'i': 'Equity', 'm': 14344644000},  
 {'s': 'XLRE', 'n': 'Real Estate Select Sector SPDR Fund', 'i': 'Equity', 'm':  
 5725823000}, {'s': 'XLSR', 'n': 'SPDR SSGA U.S. Sector Rotation ETF', 'i':  
 'Equity', 'm': 492264300}, {'s': 'XLU', 'n': 'Utilities Select Sector SPDR  
 Fund', 'i': 'Equity', 'm': 11774816000}, {'s': 'XLV', 'n': 'Health Care Select  
 Sector SPDR Fund', 'i': 'Equity', 'm': 38379860000}, {'s': 'XLY', 'n': 'Consumer  
 Discretionary Select Sector SPDR Fund', 'i': 'Equity', 'm': 19671600000}, {'s':  
 'XMAR', 'n': 'FT Vest U.S. Equity Enhance & Moderate Buffer ETF - March', 'i':  
 'Equity', 'm': 184783570}, {'s': 'XME', 'n': 'SPDR S&P Metals & Mining ETF',  
 'i': 'Equity', 'm': 2105311500}, {'s': 'XMHQ', 'n': 'Invesco S&P MidCap Quality  
 ETF', 'i': 'Equity', 'm': 4645679600}, {'s': 'XMLV', 'n': 'Invesco S&P MidCap  
 Low Volatility ETF', 'i': 'Equity', 'm': 796762940}, {'s': 'XMMO', 'n': 'Invesco  
 S&P MidCap Momentum ETF', 'i': 'Equity', 'm': 2188133600}, {'s': 'XMPT', 'n':  
 'VanEck CEF Muni Income ETF', 'i': 'Fixed Income', 'm': 228164660}, {'s':  
 'XMVM', 'n': 'Invesco S&P MidCap Value with Momentum ETF', 'i': 'Equity', 'm':  
 216221730}, {'s': 'XNAV', 'n': 'FundX Aggressive ETF', 'i': 'Equity', 'm':  
 26055148}, {'s': 'XNOV', 'n': 'FT Vest U.S. Equity Enhance & Moderate Buffer ETF  
 - November', 'i': 'Equity', 'm': 24291814}, {'s': 'XNTK', 'n': 'SPDR NYSE  
 Technology ETF', 'i': 'Equity', 'm': 801855550}, {'s': 'XOCT', 'n': 'FT Vest  
 U.S. Equity Enhance & Moderate Buffer ETF - October', 'i': 'Equity', 'm':  
 53350440}, {'s': 'XOMO', 'n': 'YieldMax XOM Option Income Strategy ETF', 'i':  
 'Equity', 'm': 18387800}, {'s': 'XONE', 'n': 'BondBloxx Bloomberg One Year  
 Target Duration US Treasury ETF', 'i': 'Fixed Income', 'm': 412054370}, {'s':  
 'XOP', 'n': 'SPDR S&P Oil & Gas Exploration & Production ETF', 'i': 'Equity',  
 'm': 4357435000}, {'s': 'XPH', 'n': 'SPDR S&P Pharmaceuticals ETF', 'i':  
 'Equity', 'm': 196822740}, {'s': 'XPND', 'n': 'First Trust Expanded Technology  
 ETF', 'i': 'Equity', 'm': 18573854}, {'s': 'XPP', 'n': 'ProShares Ultra FTSE  
 China 50', 'i': 'Equity', 'm': 8736584}, {'s': 'XRLV', 'n': 'Invesco S&P 500 ex-  
 Rate Sensitive Low Volatility ETF', 'i': 'Equity', 'm': 40507370}, {'s': 'XRLX',  
 'n': 'FundX Investment Conservative ETF', 'i': 'Asset Allocation', 'm':  
 56921436}, {'s': 'XRMI', 'n': 'Global X S&P 500 Risk Managed Income ETF', 'i':  
 'Equity', 'm': 34765284}, {'s': 'XRT', 'n': 'SPDR S&P Retail ETF', 'i':

'Equity', 'm': 522198980}, {'s': 'XSD', 'n': 'SPDR S&P Semiconductor ETF', 'i':  
 'Equity', 'm': 1421920400}, {'s': 'XSEP', 'n': 'FT Vest U.S. Equity Enhance &  
 Moderate Buffer ETF - September', 'i': 'Equity', 'm': 132396620}, {'s': 'XSHD',  
 'n': 'Invesco S&P SmallCap High Dividend Low Volatility ETF', 'i': 'Equity',  
 'm': 29514014}, {'s': 'XSHQ', 'n': 'Invesco S&P SmallCap Quality ETF', 'i':  
 'Equity', 'm': 145706380}, {'s': 'XSLV', 'n': 'Invesco S&P SmallCap Low  
 Volatility ETF', 'i': 'Equity', 'm': 326411260}, {'s': 'XSMO', 'n': 'Invesco S&P  
 SmallCap Momentum ETF', 'i': 'Equity', 'm': 399663260}, {'s': 'XSOE', 'n':  
 'WisdomTree Emerging Markets ex-State-Owned Enterprises Fund', 'i': 'Equity',  
 'm': 2009706200}, {'s': 'XSVM', 'n': 'Invesco S&P SmallCap Value with Momentum  
 ETF', 'i': 'Equity', 'm': 766041860}, {'s': 'XSVN', 'n': 'BondBloxx Bloomberg  
 Seven Year Target Duration US Treasury ETF', 'i': 'Fixed Income', 'm':  
 136581800}, {'s': 'XSW', 'n': 'SPDR S&P Software & Services ETF', 'i': 'Equity',  
 'm': 378382660}, {'s': 'XT', 'n': 'iShares Exponential Technologies ETF', 'i':  
 'Equity', 'm': 3418082300}, {'s': 'XTAP', 'n': 'Innovator U.S. Equity  
 Accelerated Plus ETF', 'i': 'Equity', 'm': 6151960}, {'s': 'XTEN', 'n':  
 'BondBloxx Bloomberg Ten Year Target Duration US Treasury ETF', 'i': 'Fixed  
 Income', 'm': 127587570}, {'s': 'XTJA', 'n': 'Innovator U.S. Equity Accelerated  
 Plus ETF - January', 'i': 'Equity', 'm': 21123960}, {'s': 'XTJL', 'n':  
 'Innovator U.S. Equity Accelerated Plus ETF - July', 'i': 'Equity', 'm':  
 10017248}, {'s': 'XTL', 'n': 'SPDR S&P Telecom ETF', 'i': 'Equity', 'm':  
 53452788}, {'s': 'XTN', 'n': 'SPDR S&P Transportation ETF', 'i': 'Equity', 'm':  
 181456700}, {'s': 'XTOC', 'n': 'Innovator U.S. Equity Accelerated Plus ETF -  
 October', 'i': 'Equity', 'm': 18696622}, {'s': 'XTR', 'n': 'Global X S&P 500  
 Tail Risk ETF', 'i': 'Equity', 'm': 3248517}, {'s': 'XTRE', 'n': 'BondBloxx  
 Bloomberg Three Year Target Duration US Treasury ETF', 'i': 'Fixed Income', 'm':  
 51602030}, {'s': 'XTWO', 'n': 'BondBloxx Bloomberg Two Year Target Duration US  
 Treasury ETF', 'i': 'Fixed Income', 'm': 99225190}, {'s': 'XTWY', 'n':  
 'BondBloxx Bloomberg Twenty Year Target Duration US Treasury ETF', 'i': 'Fixed  
 Income', 'm': 25564928}, {'s': 'XUSP', 'n': 'Innovator Uncapped Accelerated U.S.  
 Equity ETF', 'i': 'Equity', 'm': 25056870}, {'s': 'XVOL', 'n': 'Acrucence Active  
 Hedge U.S. Equity ETF', 'i': 'Equity', 'm': 6569647.5}, {'s': 'XVV', 'n':  
 'iShares ESG Screened S&P 500 ETF', 'i': 'Equity', 'm': 250956510}, {'s':  
 'XXCH', 'n': 'Direxion Daily MSCI Emerging Markets ex China Bull 2X Shares',  
 'i': 'Equity', 'm': 2698927}, {'s': 'XYLD', 'n': 'Global X S&P 500 Covered Call  
 ETF', 'i': 'Equity', 'm': 2858431700}, {'s': 'XYLE', 'n': 'Global X S&P 500 ESG  
 Covered Call ETF', 'i': 'Equity', 'm': 1305304.6}, {'s': 'XYLG', 'n': 'Global X  
 S&P 500 Covered Call & Growth ETF', 'i': 'Equity', 'm': 70095640}, {'s': 'YALL',  
 'n': 'God Bless America ETF', 'i': 'Equity', 'm': 66670476}, {'s': 'YANG', 'n':  
 'Direxion Daily FTSE China Bear 3X Shares', 'i': 'Equity', 'm': 139576460},  
 {'s': 'YBTC', 'n': 'Roundhill Bitcoin Covered Call Strategy ETF', 'i':  
 'Currency', 'm': 18321104}, {'s': 'YCL', 'n': 'ProShares Ultra Yen', 'i':  
 'Currency', 'm': 42036736}, {'s': 'YCS', 'n': 'ProShares UltraShort Yen', 'i':  
 'Currency', 'm': 33595176}, {'s': 'YDEC', 'n': 'FT Vest International Equity  
 Moderate Buffer ETF - December', 'i': 'Equity', 'm': 93236050}, {'s': 'YEAR',  
 'n': 'AB Ultra Short Income ETF', 'i': 'Fixed Income', 'm': 948951230}, {'s':  
 'YINN', 'n': 'Direxion Daily FTSE China Bull 3X Shares', 'i': 'Equity', 'm':  
 1020622100}, {'s': 'YJUN', 'n': 'FT Vest International Equity Buffer ETF -



```

June', 'i': 'Equity', 'm': 163515040}, {'s': 'YLD', 'n': 'Principal Active High
Yield ETF', 'i': 'Asset Allocation', 'm': 172374110}, {'s': 'YLDE', 'n':
'ClearBridge Dividend Strategy ESG ETF', 'i': 'Equity', 'm': 42931640}, {'s':
'YMAG', 'n': 'YieldMax Magnificent 7 Fund of Option Income ETFs', 'i': 'Equity',
'm': 38206924}, {'s': 'YMAR', 'n': 'FT Vest International Equity Moderate
Buffer', 'i': 'Equity', 'm': 78064050}, {'s': 'YMAX', 'n': 'YieldMax Universe
Fund of Option Income ETFs', 'i': 'Equity', 'm': 104735544}, {'s': 'YOLO', 'n':
'AdvisorShares Pure Cannabis ETF', 'i': 'Equity', 'm': 52116920}, {'s': 'YSEP',
'n': 'FT Vest International Equity Buffer ETF - September', 'i': 'Equity', 'm':
36332444}, {'s': 'YUMY', 'n': 'VanEck Future of Food ETF', 'i': 'Equity', 'm':
3330220}, {'s': 'YXI', 'n': 'ProShares Short FTSE China 50', 'i': 'Equity', 'm':
6428100}, {'s': 'YYY', 'n': 'Amplify High Income ETF', 'i': 'Asset Allocation',
'm': 452618200}, {'s': 'ZALT', 'n': 'Innovator U.S. Equity 10 Buffer ETF -
Quarterly', 'i': 'Equity', 'm': 107229820}, {'s': 'ZECF', 'n': 'Zacks Earnings
Consistent Portfolio ETF', 'i': 'Equity', 'm': 118489120}, {'s': 'ZHDG', 'n':
'Zega Buy & Hedge ETF', 'i': 'Asset Allocation', 'm': 43109130}, {'s': 'ZIG',
'n': 'Acquirers Fund', 'i': 'Equity', 'm': 43890000}, {'s': 'ZIVB', 'n': '-1x
Short VIX Mid-Term Futures Strategy ETF', 'i': 'Alternatives', 'm': 4637556},
{'s': 'ZROZ', 'n': 'PIMCO 25+ Year Zero Coupon US Treasury Index Exchange-Traded
Fund PIMCO 25+ Year Zero Coupon U.S. Treasury Index', 'i': 'Fixed Income', 'm':
1262226000}, {'s': 'ZSB', 'n': 'USCF Sustainable Battery Metals Strategy Fund',
'i': 'Commodity', 'm': 1578600}, {'s': 'ZSC', 'n': 'USCF Sustainable Commodity
Strategy Fund', 'i': 'Commodity', 'm': 2416600}, {'s': 'ZSL', 'n': 'ProShares
UltraShort Silver', 'i': 'Commodity', 'm': 38118628}, {'s': 'ZTAX', 'n':
'X-Square Municipal Income Tax Free ETF', 'i': 'Fixed Income', 'm': 3390120},
{'s': 'ZTEN', 'n': 'F/M 10-Year Investment Grade Corporate Bond Etf', 'i':
'Fixed Income', 'm': 13650084}, {'s': 'ZTRE', 'n': 'F/M 3-Year Investment Grade
Corporate Bond Etf', 'i': 'Fixed Income', 'm': 15839456}, {'s': 'ZTWO', 'n':
'F/M 2-Year Investment Grade Corporate Bond Etf', 'i': 'Fixed Income', 'm':
9945960}, {'s': 'ZZZ', 'n': 'Cyber Horner S&P 500 and Bitcoin 75/25 Strategy
ETF', 'i': 'Asset Allocation', 'm': 2496090}]

```

```

[ ]: import pandas as pd
df=pd.DataFrame(python_json_object)
df

```

```

[ ]:
      s                                     n \
0    AAA  Alternative Access First Priority CLO Bond ETF
1   AAAU                Goldman Sachs Physical Gold ETF
2   AADR                AdvisorShares Dorsey Wright ADR ETF
3   AAPB                GraniteShares 2x Long AAPL Daily ETF
4   AAPD                Direxion Daily AAPL Bear 1X Shares ETF
...
3391 ZTAX                X-Square Municipal Income Tax Free ETF
3392 ZTEN  F/M 10-Year Investment Grade Corporate Bond Etf
3393 ZTRE  F/M 3-Year Investment Grade Corporate Bond Etf
3394 ZTWO  F/M 2-Year Investment Grade Corporate Bond Etf

```

3395 ZZZ Cyber Hornet S&P 500 and Bitcoin 75/25 Strateg...

	i	m
0	Fixed Income	19995624.0
1	Commodity	680485300.0
2	Equity	25955956.0
3	Equity	19099518.0
4	Equity	32221922.0
...	...	...
3391	Fixed Income	3390120.0
3392	Fixed Income	13650084.0
3393	Fixed Income	15839456.0
3394	Fixed Income	9945960.0
3395	Asset Allocation	2496090.0

[3396 rows x 4 columns]

```
[ ]: # Pick only equity ETFs with large market capitalization
assetFilter = df.i=='Equity'
sizeFilter = df.m>2E9
extraFilter = df.n.str.contains('Invesco|iShares|ARK')
filter_etfs = df.loc[assetFilter&sizeFilter&extraFilter]
```

## 5 Get ETF holdings

```
[ ]: from functools import lru_cache

@lru_cache
def getETFHoldings(etf):
    url = f"https://stockanalysis.com/etf/{etf}/holdings/"

    # Send a GET request to the URL
    response = requests.get(url)

    # Create a BeautifulSoup object to parse the HTML content
    soup = BeautifulSoup(response.content, "html.parser")

    holding_df = pd.DataFrame([[cell.text for cell in row.find_all('td')] for row_
    ↪ in soup.find_all('tr')[1:]],
                              columns=['no', 'ticker', 'name', 'weight', 'holding'])
    holding_df.weight = pd.to_numeric(holding_df.weight.map(lambda s:str(s).
    ↪ replace('%', '')))
    holding_df.weight /= holding_df.weight.sum()
    return holding_df.set_index('ticker')['weight'].to_dict()
```

## 6 Get Holdings for All ETFs

```
[ ]: data=[]

for etf in filter_etfs.s:
    s=pd.Series(getETFHoldings(etf))
    s.name = etf
    data.append(s)

etfs_and_holdings = pd.concat(data,axis=1)
```

```
[ ]: etfs_and_holdings = etfs_and_holdings.T.fillna(0)
```

```
[ ]: etfs_and_holdings
# Rows - ETFs
# Columns - Holdings
```

```
[ ]:      2330.TW  005930.KS    700.HK    9988.HK  RELIANCE.NS  000660.KS  \
AAXJ  0.204260   0.095132   0.085598   0.048682    0.034888    0.024341
ACWI  0.023829   0.011102   0.010019   0.000000    0.000000    0.000000
ACWV  0.000000   0.000000   0.000000   0.000000    0.000000    0.000000
ACWX  0.082224   0.038212   0.034459   0.019447    0.013988    0.000000
ARKK  0.000000   0.000000   0.000000   0.000000    0.000000    0.000000
...      ...      ...      ...      ...      ...      ...
VLUE  0.000000   0.000000   0.000000   0.000000    0.000000    0.000000
XLG   0.000000   0.000000   0.000000   0.000000    0.000000    0.000000
XMHQ  0.000000   0.000000   0.000000   0.000000    0.000000    0.000000
XMMO  0.000000   0.000000   0.000000   0.000000    0.000000    0.000000
XT    0.000000   0.000000   0.000000   0.000000    0.000000    0.000000

      ICICIBANK.NS  1299.HK    PDD   3690.HK  ...  HAYW  JELD  AMWD  NX  \
AAXJ      0.022921  0.022921  0.022515  0.021501  ...   0.0   0.0   0.0  0.0
ACWI      0.000000  0.000000  0.000000  0.000000  ...   0.0   0.0   0.0  0.0
ACWV      0.000000  0.000000  0.000000  0.000000  ...   0.0   0.0   0.0  0.0
ACWX      0.000000  0.000000  0.000000  0.000000  ...   0.0   0.0   0.0  0.0
ARKK      0.000000  0.000000  0.000000  0.000000  ...   0.0   0.0   0.0  0.0
...      ...      ...      ...      ...  ...   ...   ...   ...  ...
VLUE      0.000000  0.000000  0.000000  0.000000  ...   0.0   0.0   0.0  0.0
XLG       0.000000  0.000000  0.000000  0.000000  ...   0.0   0.0   0.0  0.0
XMHQ      0.000000  0.000000  0.000000  0.000000  ...   0.0   0.0   0.0  0.0
XMMO      0.000000  0.000000  0.000000  0.000000  ...   0.0   0.0   0.0  0.0
XT        0.000000  0.000000  0.000000  0.000000  ...   0.0   0.0   0.0  0.0

      ETD  ARHS  SGAFT  FAM4  TJX   CB
AAXJ  0.0   0.0   0.0   0.0  0.0  0.0
ACWI  0.0   0.0   0.0   0.0  0.0  0.0
ACWV  0.0   0.0   0.0   0.0  0.0  0.0
```

ACWX	0.0	0.0	0.0	0.0	0.0	0.0
ARKK	0.0	0.0	0.0	0.0	0.0	0.0
...	...	...	...	...	...	...
VLUE	0.0	0.0	0.0	0.0	0.0	0.0
XLG	0.0	0.0	0.0	0.0	0.0	0.0
XMHQ	0.0	0.0	0.0	0.0	0.0	0.0
XMMO	0.0	0.0	0.0	0.0	0.0	0.0
XT	0.0	0.0	0.0	0.0	0.0	0.0

[114 rows x 1359 columns]

```
[ ]: etfs = etfs_and_holdings.index.tolist()
```

```
[ ]: etfs
```

```
[ ]: ['AAXJ',
      'ACWI',
      'ACWV',
      'ACWX',
      'ARKK',
      'DGRO',
      'DSI',
      'DVY',
      'EEM',
      'EEMV',
      'EFA',
      'EFAV',
      'EFG',
      'EFV',
      'EMXC',
      'ESGD',
      'ESGE',
      'ESGU',
      'EWC',
      'EWJ',
      'EWT',
      'EWU',
      'EWW',
      'EWY',
      'EWZ',
      'EZU',
      'FXI',
      'HDV',
      'HEFA',
      'IBB',
      'ICLN',
      'IDEV',
```

'IDV',  
'IEFA',  
'IEMG',  
'IEUR',  
'IFRA',  
'IGF',  
'IGM',  
'IGV',  
'IHI',  
'IJH',  
'IJJ',  
'IJK',  
'IJR',  
'IJS',  
'IJT',  
'ILCG',  
'IMCG',  
'IMTM',  
'INDA',  
'IOO',  
'IPAC',  
'IQLT',  
'ITA',  
'ITB',  
'ITOT',  
'IUSG',  
'IUSV',  
'IVE',  
'IVV',  
'IVW',  
'IWB',  
'IWD',  
'IWF',  
'IWM',  
'IWN',  
'IWO',  
'IWP',  
'IWR',  
'IWS',  
'I WV',  
'IWX',  
'IWY',  
'IXC',  
'IXJ',  
'IXN',  
'IXUS',  
'IYF',

```

'IYH',
'IYR',
'IYW',
'MCHI',
'MTUM',
'OEI',
'OMFL',
'PBUS',
'PHO',
'PPA',
'PRF',
'PRFZ',
'QQQ',
'QQQM',
'QUAL',
'REET',
'RPV',
'RSP',
'RSPT',
'RWL',
'SCZ',
'SOXX',
'SPGP',
'SPHD',
'SPHQ',
'SPLV',
'SUSA',
'URTH',
'USMV',
'USRT',
'VLUE',
'XLG',
'XMHQ',
'XMMO',
'XT']

```

```

[ ]: tickers=set()
      for etf in etfs:
          print(etf,getETFHoldings(etf))
          tickers |= set(getETFHoldings(etf).keys())
      tickers=list(tickers)
      len(tickers)

```

```

AAXJ {'2330.TW': 0.20425963488843818, '005930.KS': 0.09513184584178502,
'700.HK': 0.08559837728194727, '9988.HK': 0.04868154158215011, 'RELIANCE.NS':
0.034888438133874246, '000660.KS': 0.024340770791075054, 'ICICIBANK.NS':
0.02292089249492901, '1299.HK': 0.02292089249492901, 'PDD': 0.02251521298174443,

```

'3690.HK': 0.021501014198782968, 'INFY.NS': 0.01926977687626775, '939.HK':  
 0.01926977687626775, '2317.TW': 0.018864097363083168, '2454.TW':  
 0.01825557809330629, 'HDFCBANK.NS': 0.016632860040567955, 'D05.SI':  
 0.015415821501014202, 'TCS.NS': 0.014198782961460448, '005935.KQ':  
 0.013387423935091281, 'XTSLA': 0.012170385395537527, '9999.HK':  
 0.012170385395537527, '388.HK': 0.011764705882352943, '039.SI':  
 0.01135902636916836, 'BBCA.JK': 0.011156186612576068, '1398.HK':  
 0.010953346855983776, '3988.HK': 0.010750507099391484, 'BHARTIARTL.NS':  
 0.010750507099391484, '1810.HK': 0.010547667342799192, 'AXISBANK.NS':  
 0.010141987829614606, '9618.HK': 0.009939148073022314, 'LT.NS':  
 0.00953346855983773, '1211.HK': 0.009330628803245438, '9888.HK':  
 0.008924949290060854, '9961.HK': 0.008924949290060854, 'U11.SI':  
 0.008722109533468561, '2318.HK': 0.00851926977687627, 'BBRI.JK':  
 0.007910750507099393, 'BAJFINANCE.NS': 0.007910750507099393, '005380.KS':  
 0.007707910750507101, 'KOTAKBANK.NS': 0.007707910750507101, 'M&M.NS':  
 0.007505070993914809, '2382.TW': 0.007505070993914809, 'HINDUNILVR.NS':  
 0.007099391480730224, 'MARUTI.NS': 0.006693711967545641, '000270.KS':  
 0.006693711967545641, '005490.KS': 0.006693711967545641, 'TATAMOTORS.NS':  
 0.006693711967545641, '068270.KS': 0.006693711967545641, '2308.TW':  
 0.0064908722109533485, 'SE': 0.0064908722109533485, '857.HK':  
 0.0064908722109533485}  
 ACWI {'MSFT': 0.11399945843487677, 'AAPL': 0.09937720010831301, 'NVDA':  
 0.08340102897373408, 'AMZN': 0.06607094503113999, 'META': 0.04359599241808827,  
 'GOOGL': 0.03547251556999729, 'GOOG': 0.031681559707554825, '2330.TW':  
 0.02382886542106688, 'LLY': 0.023287300297860813, 'AVGO': 0.02274573517465475,  
 'JPM': 0.02003790955862442, 'BRK.B': 0.02003790955862442, 'TSLA':  
 0.018683996750609257, 'XOM': 0.018413214189006225, 'V': 0.01678851881938803,  
 'UNH': 0.015434606011372863, 'NOVO B.CO': 0.015434606011372863, 'ASML.AS':  
 0.0148930408881668, 'MA': 0.0148930408881668, 'PG': 0.013809910641754668, 'JNJ':  
 0.013539128080151636, 'HD': 0.01299756295694557, 'COST': 0.012455997833739506,  
 'MRK': 0.012185215272136472, '005930.KS': 0.01110208502572434, 'ABBV':  
 0.01110208502572434, 'CVX': 0.010831302464121308, 'CRM': 0.010831302464121308,  
 'NFLX': 0.010560519902518276, 'NESN.SW': 0.010289737340915244, 'WMT':  
 0.010289737340915244, 'AMD': 0.01001895477931221, '7203.T': 0.01001895477931221,  
 '700.HK': 0.01001895477931221, 'BAC': 0.009748172217709178, 'SHEL.L':  
 0.009206607094503112, 'KO': 0.009206607094503112, 'PEP': 0.008665041971297046,  
 'MC.PA': 0.008665041971297046, 'TMO': 0.008394259409694014, 'LIN':  
 0.008394259409694014, 'ADBE': 0.00812347684809098, 'AZN.L': 0.00812347684809098,  
 'DIS': 0.007852694286487948, 'WFC': 0.007852694286487948, 'ORCL':  
 0.007581911724884917, 'ACN': 0.007581911724884917, 'CSCO': 0.007581911724884917,  
 'MCD': 0.007581911724884917, 'NOVN.SW': 0.007311129163281884}  
 ACWV {'MRK': 0.036684782608695655, 'WM': 0.034646739130434784, 'MSI':  
 0.03306159420289855, 'CSCO': 0.03283514492753623, 'WMT': 0.03238224637681159,  
 'ROP': 0.03192934782608696, 'TMUS': 0.028306159420289856, 'RSG':  
 0.028306159420289856, 'MCK': 0.0276268115942029, 'PEP': 0.02740036231884058,  
 'JNJ': 0.025362318840579715, 'VRTX': 0.02445652173913044, 'MCD':  
 0.022644927536231887, '9434.T': 0.022644927536231887, '3988.HK':  
 0.022418478260869568, 'COR': 0.021965579710144928, 'ED': 0.020833333333333336,

'NOVN.SW': 0.01992753623188406, 'MMC': 0.01970108695652174, 'BRK.B':  
 0.01947463768115942, 'KR': 0.01947463768115942, '9432.T': 0.019248188405797104,  
 'PG': 0.019021739130434784, 'VZ': 0.018342391304347828, 'AZO':  
 0.01811594202898551, 'DTE.DE': 0.01766304347826087, 'REGN': 0.01766304347826087,  
 'TCS.NS': 0.017436594202898552, 'DUK': 0.017210144927536232, 'HSY':  
 0.016757246376811596, 'GILD': 0.016304347826086956, '939.HK':  
 0.01585144927536232, 'IBM': 0.01585144927536232, 'SO': 0.01585144927536232,  
 'PGR': 0.01585144927536232, 'GIS': 0.015625, 'UNH': 0.015172101449275364, 'WEC':  
 0.014719202898550726, 'KEYS': 0.014719202898550726, '9433.T':  
 0.014492753623188408, 'MSFT': 0.01403985507246377, 'ORA.PA':  
 0.01403985507246377, 'XEL': 0.01381340579710145, '7751.T': 0.01381340579710145,  
 'ORLY': 0.013134057971014492, 'V': 0.013134057971014492, 'CBOE':  
 0.012907608695652174, 'LLY': 0.012454710144927538, '1398.HK':  
 0.012454710144927538, 'BMY': 0.01222826086956522}  
 ACWX {'2330.TW': 0.08222449675878542, 'NOVO B.CO': 0.0542476970317298,  
 'ASML.AS': 0.05151825315591949, '005930.KS': 0.03821221426134426, 'NESN.SW':  
 0.035823950870010245, '7203.T': 0.03445922893210509, '700.HK':  
 0.03445922893210509, 'SHEL.L': 0.031729785056294785, 'MC.PA':  
 0.030365063118389633, 'AZN.L': 0.027976799727055614, 'NOVN.SW':  
 0.025588536335721602, 'SAP.DE': 0.025247355851245313, 'ROG.SW':  
 0.022859092459911298, 'TTE.PA': 0.021153190037529856, 'HSBA.L':  
 0.020812009553053568, 'BHP.AX': 0.019788468099624704, '9988.HK':  
 0.019447287615148415, 'SIE.DE': 0.018423746161719552, 'RY':  
 0.018423746161719552, 'CBA.AX': 0.01671784373933811, '8035.T':  
 0.016035482770385537, 'SU.PA': 0.016035482770385537, 'ULVR.L':  
 0.01535312180143296, 'BP.L': 0.015011941316956672, '8306.T':  
 0.015011941316956672, 'ALV.DE': 0.014329580348004096, '6758.T':  
 0.014329580348004096, 'RELIANCE.NS': 0.013988399863527807, 'OR.PA':  
 0.013988399863527807, 'SAN.PA': 0.013647219379051521, 'AI.PA':  
 0.013647219379051521, 'AIR.PA': 0.013647219379051521, 'TD':  
 0.013306038894575233, 'UBSG.SW': 0.012623677925622656, '6501.T':  
 0.011600136472193793, 'CSL.AX': 0.011600136472193793, 'CNQ':  
 0.011258955987717504, 'SHOP.NE': 0.011258955987717504, '6861.T':  
 0.010917775503241217, 'GSK.L': 0.010917775503241217, '8058.T':  
 0.010917775503241217, 'CP': 0.010576595018764928, 'REL.L': 0.01023541453428864,  
 '4063.T': 0.01023541453428864, 'DGE.L': 0.01023541453428864, 'SAN.MC':  
 0.01023541453428864, 'RMS.PA': 0.009894234049812352, 'CFR.SW':  
 0.009894234049812352, 'RIO.L': 0.009894234049812352, '8316.T':  
 0.009894234049812352}  
 ARKK {'TSLA': 0.098300000000000001, 'COIN': 0.088800000000000002, 'ROKU': 0.0796,  
 'SQ': 0.0685, 'PATH': 0.056200000000000001, 'CRSP': 0.0497, 'RBLX':  
 0.044900000000000001, 'ZM': 0.044500000000000005, 'HOOD': 0.040300000000000001,  
 'U': 0.034, 'DKNG': 0.029500000000000005, 'PLTR': 0.028800000000000003, 'SHOP':  
 0.028200000000000003, 'NTLA': 0.0257, 'PD': 0.022500000000000003, 'TXG':  
 0.022200000000000004, 'BEAM': 0.0211, 'TDOC': 0.0207, 'META':  
 0.019200000000000002, 'TTD': 0.018000000000000002, 'RXRX': 0.017400000000000002,  
 'DNA': 0.0171, 'TWST': 0.016900000000000002, 'EXAS': 0.015600000000000003,  
 'PINS': 0.014, 'TER': 0.013600000000000003, 'VCYT': 0.0117, 'MRNA':



0.01130000000000000001, 'SOFI': 0.01030000000000000002, 'ACHR':  
 0.00980000000000000001, 'PACB': 0.0083, 'VERV': 0.00310000000000000003, 'CERS':  
 0.00300000000000000005, 'NTRA': 0.00250000000000000005, 'n/a':  
 0.00230000000000000004, 'PRME': 0.00210000000000000003, 'TWOU':  
 0.00030000000000000003}  
 DGRO {'XOM': 0.050196552766858187, 'MSFT': 0.047928636226186885, 'CVX':  
 0.04717266404596312, 'AAPL': 0.046265497429694595, 'JPM': 0.04248563652857576,  
 'JNJ': 0.03870577562745692, 'ABBV': 0.03568188690656184, 'AVGO':  
 0.03568188690656184, 'PG': 0.031448442697308746, 'MRK': 0.028878137284547932,  
 'HD': 0.027517387360145154, 'CME': 0.02615663743574237, 'PEP':  
 0.02615663743574237, 'KO': 0.025703054127608108, 'BAC': 0.024191109767160573,  
 'UNH': 0.02358633202298156, 'CSCO': 0.022830359842757792, 'IBM':  
 0.020562443302086487, 'NEE': 0.017538554581191416, 'AMGN': 0.0169337768370124,  
 'UPS': 0.016328999092833387, 'BMJ': 0.01602661022074388, 'MCD':  
 0.01602661022074388, 'MS': 0.015724221348654373, 'COP': 0.015724221348654373,  
 'CMCSA': 0.01557302691260962, 'LLY': 0.015421832476564866, 'C':  
 0.015270638040520113, 'QCOM': 0.013305110371938315, 'GS': 0.013002721499848808,  
 'GILD': 0.012700332627759301, 'ABT': 0.012700332627759301, 'RTX':  
 0.012700332627759301, 'MDT': 0.012549138191714547, 'WMT': 0.011944360447535534,  
 'V': 0.01179316601149078, 'DUK': 0.011641971575446027, 'UNP':  
 0.010734804959177504, 'SO': 0.010734804959177504, 'CAT': 0.010432416087087996,  
 'LMT': 0.010281221651043244, 'HON': 0.010130027214998491, 'ORCL':  
 0.009978832778953737, 'ACN': 0.009827638342908984, 'BLK': 0.00967644390686423,  
 'PNC': 0.00892047172664046, 'EOG': 0.00892047172664046, 'LOW':  
 0.00892047172664046, 'SBUX': 0.008769277290595708, 'LIN': 0.008618082854550953}  
 DSI {'MSFT': 0.18931669456703695, 'NVDA': 0.1383351088114442, 'GOOGL':  
 0.05935169684979454, 'GOOG': 0.052046872622127524, 'TSLA': 0.031045502967584838,  
 'V': 0.027697458529904122, 'MA': 0.02480596560645259, 'PG': 0.02328412722568863,  
 'HD': 0.02161010500684827, 'MRK': 0.020240450464160703, 'ABBV':  
 0.01826206056916755, 'CRM': 0.018109876731091157, 'AMD': 0.01674022218840359,  
 'KO': 0.015218383807639627, 'PEP': 0.01460964845533404, 'LIN':  
 0.013848729264952061, 'ADBE': 0.013544361588799268, 'DIS': 0.013239993912646476,  
 'ORCL': 0.01263125856034089, 'ACN': 0.01263125856034089, 'CSCO':  
 0.012479074722264493, 'MCD': 0.012326890884188098, 'CAT': 0.01187033936995891,  
 'INTU': 0.011109420179576928, 'AMAT': 0.010957236341500531, 'DHR':  
 0.010652868665347738, 'VZ': 0.010652868665347738, 'IBM': 0.010500684827271341,  
 'NOW': 0.010044133313042155, 'TXN': 0.009587581798812965, 'INTC':  
 0.009587581798812965, 'AMGN': 0.009131030284583775, 'UNP': 0.009131030284583775,  
 'SPGI': 0.008674478770354587, 'LOW': 0.008522294932278192, 'AXP':  
 0.008065743418049002, 'ETN': 0.008065743418049002, 'LRCX': 0.008065743418049002,  
 'BKNG': 0.0077613757418962094, 'PGR': 0.007609191903819814, 'ELV':  
 0.007457008065743417, 'BLK': 0.0071526403895906246, 'NKE':  
 0.0071526403895906246, 'PLD': 0.007000456551514229, 'MS': 0.0066960888753614355,  
 'DE': 0.0066960888753614355, 'SCHW': 0.0066960888753614355, 'UPS':  
 0.0066960888753614355, 'CI': 0.00654390503728504, 'VRTX': 0.00654390503728504}  
 DVY {'MO': 0.04130013418816163, 'VZ': 0.02758312211122708, 'T':  
 0.026688534367079176, 'TFC': 0.025793946622931267, 'KEY': 0.02519755479349933,  
 'D': 0.024899358878783362, 'OKE': 0.024601162964067395, 'PFE':

0.024601162964067395, 'CFG': 0.024302967049351424, 'PM': 0.024153869091993442,  
 'IP': 0.023408379305203522, 'RF': 0.0226628895184136, 'CAG': 0.0226628895184136,  
 'LYB': 0.022215595646339646, 'F': 0.021171909944833756, 'HBAN':  
 0.021022811987475774, 'PRU': 0.02087371403011779, 'BBY': 0.020724616072759803,  
 'ES': 0.02057551811540182, 'USB': 0.02012822424332787, 'EIX':  
 0.02012822424332787, 'TROW': 0.0198300283286119, 'ETR': 0.019531832413895934,  
 'FE': 0.01878634262710601, 'CVX': 0.018637244669748025, 'WEC':  
 0.018488146712390043, 'NI': 0.018189950797674072, 'AEP': 0.01804085284031609,  
 'NRG': 0.01804085284031609, 'FITB': 0.017891754882958105, 'XOM':  
 0.017891754882958105, 'PEG': 0.017891754882958105, 'KMB': 0.017891754882958105,  
 'EXC': 0.01774265692560012, 'NEE': 0.017593558968242134, 'GILD':  
 0.0169971671388102, 'LNT': 0.0169971671388102, 'PPL': 0.016549873266736247,  
 'IPG': 0.016549873266736247, 'NEM': 0.016400775309378265, 'WBA':  
 0.01625167735202028, 'HPQ': 0.01625167735202028, 'VLO': 0.01625167735202028,  
 'GIS': 0.016102579394662295, 'DTE': 0.015804383479946327, 'CMS':  
 0.015357089607872375, 'FNF': 0.015058893693156406, 'PNW': 0.015058893693156406,  
 'IBM': 0.014760697778440437, 'PFG': 0.014462501863724468}  
 EEM {'2330.TW': 0.020425029515938606, '005930.KS': 0.09492325855962218, '700.HK':  
 0.08547815820543093, '9988.HK': 0.048642266824085005, 'RELIANCE.NS':  
 0.03494687131050767, '000660.KS': 0.024321133412042503, 'PDD':  
 0.02266824085005903, 'ICICIBANK.NS': 0.02243211334120425, '3690.HK':  
 0.021723730814639904, 'INFY.NS': 0.019362455726092086, '939.HK':  
 0.01912632821723731, '2317.TW': 0.018890200708382526, '2454.TW':  
 0.01818181818181818, 'HDFCBANK.NS': 0.01676505312868949, '1120.SR':  
 0.014403778040141675, 'TCS.NS': 0.014167650531286893, '005935.KQ':  
 0.013459268004722549, 'VALE3.SA': 0.01322314049586777, '9999.HK':  
 0.012278630460448641, 'PETR4.SA': 0.011806375442739079, 'BBCA.JK':  
 0.011334120425029515, 'BHARTIARTL.NS': 0.010861865407319952, '1398.HK':  
 0.010861865407319952, '3988.HK': 0.010861865407319952, '1810.HK':  
 0.010625737898465172, 'NPN.JO': 0.010625737898465172, '1180.SR':  
 0.010625737898465172, '9618.HK': 0.009917355371900825, 'ITUB4.SA':  
 0.009917355371900825, 'XTSLA': 0.009917355371900825, 'LT.NS':  
 0.009681227863046043, 'AXISBANK.NS': 0.009681227863046043, 'PETR3.SA':  
 0.009445100354191263, '9888.HK': 0.009208972845336482, '1211.HK':  
 0.009208972845336482, '9961.HK': 0.0089728453364817, 'GFNORTEO.MX':  
 0.0089728453364817, '2318.HK': 0.008500590318772136, 'BBRI.JK':  
 0.008028335301062573, 'BAJFINANCE.NS': 0.007792207792207792, 'FEMSAUBD.MX':  
 0.007792207792207792, 'KOTAKBANK.NS': 0.007792207792207792, '005380.KS':  
 0.007792207792207792, 'M&M.NS': 0.007556080283353011, '2382.TW':  
 0.007556080283353011, 'KFH.KW': 0.007319952774498229, 'NBK.KW':  
 0.007319952774498229, 'HINDUNILVR.NS': 0.007083825265643447, '2222.SR':  
 0.006847697756788665, '2010.SR': 0.006847697756788665}  
 EEMV {'1288.HK': 0.03384682143632024, '3045.TW': 0.03276198741592536, '2412.TW':  
 0.03254502061184639, '3988.HK': 0.03232805380776741, 'BHARTIARTL.NS':  
 0.032111087003688435, 'TCS.NS': 0.029507485354740723, '2912.TW':  
 0.02907355174658277, '2892.TW': 0.028422651334345843, '7010.SR':  
 0.028205684530266867, 'AOT-R.BK': 0.026252983293556083, 'HCLTECH.NS':  
 0.026036016489477107, 'NBK.KW': 0.024951182469082227, '4904.TW':

0.02473421566500325, '005930.KS': 0.02386634844868735, 'BBCA.JK':  
 0.023649381644608374, 'NVAA.DE': 0.022998481232371446, '5880.TW':  
 0.022347580820134518, '1398.HK': 0.021913647211976566, 'MAYBANK.KL':  
 0.02061184638750271, '1120.SR': 0.019743979171186806, 'ADNOCDIST.AD':  
 0.019310045563028854, 'BAJAJ-AUTO.NS': 0.019093078758949878, '2880.TW':  
 0.018876111954870902, '7020.SR': 0.018659145150791926, '600900.SS':  
 0.018225211542633974, 'DIB.DB': 0.018225211542633974, 'SUNPHARMA.NS':  
 0.016055543501844217, '2222.SR': 0.016055543501844217, 'INFY.NS':  
 0.016055543501844217, 'HINDUNILVR.NS': 0.01583857669776524, '9633.HK':  
 0.01583857669776524, 'MRF.NS': 0.015187676285528312, 'KFH.KW':  
 0.015187676285528312, '033780.KS': 0.015187676285528312, '2330.TW':  
 0.014970709481449336, 'PIDILITIND.NS': 0.014753742677370361, 'CIPLA.NS':  
 0.014753742677370361, '1816.HK': 0.014536775873291385, '005935.KQ':  
 0.014536775873291385, '2324.TW': 0.014536775873291385, '4190.SR':  
 0.01431980906921241, '207940.KS': 0.014102842265133433, '788.HK':  
 0.014102842265133433, '1339.HK': 0.014102842265133433, '2010.SR':  
 0.013885875461054457, 'DRREDDY.NS': 0.013668908656975481, '2395.TW':  
 0.013668908656975481, 'QNBK.QA': 0.013451941852896505, '018260.KS':  
 0.013451941852896505, '939.HK': 0.013451941852896505}  
 EFA {'NOVO B.CO': 0.06422976501305483, 'ASML.AS': 0.06109660574412533,  
 'NESN.SW': 0.042819843342036555, '7203.T': 0.04099216710182768, 'SHEL.L':  
 0.03733681462140992, 'MC.PA': 0.03603133159268929, 'AZN.L': 0.03342036553524805,  
 'NOVN.SW': 0.030548302872062665, 'SAP.DE': 0.029765013054830286, 'ROG.SW':  
 0.02741514360313316, 'TTE.PA': 0.025065274151436032, 'HSBA.L':  
 0.02454308093994778, 'BHP.AX': 0.023498694516971282, 'SIE.DE':  
 0.02193211488250653, 'CBA.AX': 0.019843342036553527, '8035.T':  
 0.01906005221932115, 'SU.PA': 0.01906005221932115, 'ULVR.L':  
 0.018537859007832898, 'BP.L': 0.018015665796344647, '8306.T':  
 0.017754569190600526, 'ALV.DE': 0.017232375979112275, '6758.T':  
 0.016971279373368148, 'OR.PA': 0.016710182767624024, 'SAN.PA':  
 0.016449086161879897, 'AI.PA': 0.016449086161879897, 'AIR.PA':  
 0.016187989556135773, 'UBSG.SW': 0.014882506527415143, '6501.T':  
 0.013838120104438644, 'CSL.AX': 0.013838120104438644, 'GSK.L':  
 0.013315926892950393, '6861.T': 0.013054830287206267, '8058.T':  
 0.012793733681462142, 'REL.L': 0.01227154046997389, 'DGE.L':  
 0.012010443864229767, '4063.T': 0.012010443864229767, 'SAN.MC':  
 0.012010443864229767, 'RMS.PA': 0.012010443864229767, 'CFR.SW':  
 0.012010443864229767, 'RIO.L': 0.011749347258485641, 'SAF.PA':  
 0.011749347258485641, '8316.T': 0.011749347258485641, 'ABBN.SW':  
 0.011488250652741516, 'IBE.MC': 0.011488250652741516, 'DTE.DE':  
 0.011488250652741516, 'ZURN.SW': 0.011488250652741516, 'BNP.PA':  
 0.011488250652741516, '1299.HK': 0.01122715404699739, 'NAB.AX':  
 0.010704960835509139, 'CS.PA': 0.01018276762402089, 'MBG.DE':  
 0.01018276762402089}  
 EFAV {'ITX.MC': 0.030296909715209045, 'BA.L': 0.02948899212280347, '4578.T':  
 0.029287012724702077, 'ZURN.SW': 0.029287012724702077, 'NOVN.SW':  
 0.02888305392849929, 'SCMN.SW': 0.02888305392849929, 'GSK.L':  
 0.026459301151282567, 'AD.AS': 0.02605534235507978, 'SAN.PA':

0.025651383558876993, 'ULVR.L': 0.025045445364572812, 'NESN.SW':  
 0.024237527772167235, '9434.T': 0.02403554837406584, 'UCB.BR':  
 0.023631589577863054, '11.HK': 0.023227630781660267, 'ORA.PA':  
 0.023227630781660267, 'ROG.SW': 0.021409816198747728, 'RACE.MI':  
 0.02120783680064633, 'AZN.L': 0.020803878004443544, 'D05.SI':  
 0.020803878004443544, 'BEI.DE': 0.020803878004443544, 'NG.L':  
 0.020399919208240757, '6.HK': 0.020197939810139363, '2.HK': 0.01999596041203797,  
 'NOVO B.CO': 0.019793981013936576, 'KPN.AS': 0.019793981013936576, '9432.T':  
 0.019188042819632396, '9735.T': 0.019188042819632396, '7751.T':  
 0.018582104625328215, 'AI.PA': 0.01838012522722682, 'SPSN.SW':  
 0.018178145829125428, 'TTE.PA': 0.018178145829125428, 'WES.AX':  
 0.017572207634821247, 'REL.L': 0.017572207634821247, '8411.T':  
 0.01716824883861846, 'U11.SI': 0.01676429004241567, '039.SI':  
 0.0159563724500101, '4502.T': 0.0159563724500101, '9022.T': 0.01555241365380731,  
 'DTE.DE': 0.015350434255705916, 'WKL.AS': 0.015350434255705916, 'RO.SW':  
 0.015148454857604523, '7182.T': 0.015148454857604523, 'GBLB.BR':  
 0.014542516663300342, 'S68.SI': 0.014138557867097553, 'QIA.DE':  
 0.013532619672793374, 'SGSN.SW': 0.01333064027469198, 'ELISA.HE':  
 0.01333064027469198, 'RED.MC': 0.013128660876590587, '2388.HK':  
 0.013128660876590587, '2914.T': 0.0127247020803878}  
 EFG {'NOVO B.CO': 0.08617886178861787, 'ASML.AS': 0.08202348690153569,  
 'NESN.SW': 0.05745257452574526, 'MC.PA': 0.04841915085817525, 'AZN.L':  
 0.04498644986449865, 'SAP.DE': 0.04010840108401084, '7203.T':  
 0.02746160794941283, 'CBA.AX': 0.026558265582655824, '8035.T':  
 0.025654923215898823, 'SU.PA': 0.025474254742547425, '6758.T':  
 0.022583559168925023, 'OR.PA': 0.02240289069557362, 'AI.PA':  
 0.02204155374887082, 'AIR.PA': 0.02168021680216802, 'CSL.AX':  
 0.01860885275519422, '6861.T': 0.017344173441734417, 'REL.L':  
 0.016440831074977416, 'DGE.L': 0.016440831074977416, '4063.T':  
 0.016260162601626015, 'ULVR.L': 0.016079494128274616, 'RMS.PA':  
 0.016079494128274616, 'CFR.SW': 0.015898825654923215, 'SAF.PA':  
 0.015718157181571817, 'ABBN.SW': 0.015537488708220415, '1299.HK':  
 0.014814814814814814, '6098.T': 0.013369467028003613, 'UBSG.SW':  
 0.013008130081300813, 'MUV2.DE': 0.012646793134598011, 'CRH.L':  
 0.012104787714543812, '8766.T': 0.011924119241192412, '4568.T':  
 0.011743450767841012, 'HSBA.L': 0.01138211382113821, '7974.T':  
 0.01102077687443541, 'BHP.AX': 0.01102077687443541, 'RACE.MI':  
 0.01102077687443541, 'ABI.BR': 0.01084010840108401, 'ITX.MC':  
 0.01065943992773261, 'BA.L': 0.01047877145438121, 'WES.AX': 0.01029810298102981,  
 'SIE.DE': 0.01029810298102981, 'LSEG.L': 0.010117434507678411, '9983.T':  
 0.010117434507678411, 'D05.SI': 0.010117434507678411, 'CPG.L':  
 0.00975609756097561, 'PRX.AS': 0.00957542908762421, 'ATCO A.ST':  
 0.00957542908762421, 'IFX.DE': 0.00939476061427281, 'SIKA.SW':  
 0.009214092140921408, 'LONN.SW': 0.009214092140921408, 'RR.L':  
 0.008852755194218609}  
 EFV {'SHEL.L': 0.062394247038917085, 'NOVN.SW': 0.05097292724196277, 'ROG.SW':  
 0.04568527918781726, 'TTE.PA': 0.04187817258883248, '7203.T':  
 0.03426395939086294, 'BP.L': 0.030245346869712347, '8306.T':

0.029610829103214883, 'ALV.DE': 0.028764805414551606, 'SAN.PA':  
 0.027495769881556678, 'HSBA.L': 0.026649746192893398, 'BHP.AX':  
 0.025592216582064294, 'SIE.DE': 0.023900169204737726, 'GSK.L':  
 0.021996615905245345, '8058.T': 0.02136209813874788, 'SAN.MC':  
 0.020093062605752957, 'RIO.L': 0.019881556683587136, '8316.T':  
 0.019670050761421316, 'IBE.MC': 0.019247038917089676, 'DTE.DE':  
 0.019247038917089676, 'ZURN.SW': 0.019035532994923856, 'BNP.PA':  
 0.018824027072758036, 'NAB.AX': 0.018189509306260572, 'CS.PA':  
 0.01713197969543147, 'MBG.DE': 0.016920473773265648, 'GLEN.L':  
 0.016497461928934008, 'BBVA.MC': 0.016285956006768187, 'DG.PA':  
 0.015862944162436544, 'WBC.AX': 0.015439932318104903, 'BATS.L':  
 0.015228426395939083, '6501.T': 0.015228426395939083, 'STLAM.MI':  
 0.015016920473773262, '7267.T': 0.015016920473773262, 'ANZ.AX':  
 0.014805414551607441, 'INGA.AS': 0.013959390862944161, '8001.T':  
 0.013959390862944161, 'ISP.MI': 0.013536379018612519, 'ENEL.MI':  
 0.013324873096446699, 'BAS.DE': 0.012901861252115057, 'NG.L':  
 0.012690355329949237, '8411.T': 0.012690355329949237, 'HOLN.SW':  
 0.011844331641285955, 'MQG.AX': 0.011844331641285955, '4502.T':  
 0.011209813874788492, '9433.T': 0.010998307952622672, 'ULVR.L':  
 0.01078680203045685, 'DHL.DE': 0.01078680203045685, 'LLOY.L':  
 0.01057529610829103, 'BN.PA': 0.01036379018612521, 'VOLV B.ST':  
 0.01036379018612521, 'BMW.DE': 0.009729272419627748}  
 EMXC {'2330.TW': 0.25606528451698274, '005930.KS': 0.11932068813409792,  
 'RELIANCE.NS': 0.04389060432289369, '000660.KS': 0.03043670048522276,  
 'ICICIBANK.NS': 0.02801058667842964, 'INFY.NS': 0.024261138067931187, '2317.TW':  
 0.023820026466696075, '2454.TW': 0.02271724746360829, 'HDFCBANK.NS':  
 0.02095280105866784, '1120.SR': 0.018085575650639608, 'TCS.NS':  
 0.017865019850022056, '005935.KQ': 0.01698279664755183, 'VALE3.SA':  
 0.016762240846934274, 'PETR4.SA': 0.014777238641376268, 'BBCA.JK':  
 0.0141155712395236, 'BHARTIARTL.NS': 0.013674459638288486, '1180.SR':  
 0.013233348037053373, 'NPN.JO': 0.013233348037053373, 'ITUB4.SA':  
 0.01235112483458315, 'LT.NS': 0.012130569033965593, 'PETR3.SA':  
 0.011910013233348038, 'AXISBANK.NS': 0.011910013233348038, 'GFNORTEO.MX':  
 0.011027790030877812, 'BBRI.JK': 0.00992501102779003, 'FEMSAUBD.MX':  
 0.00992501102779003, 'BAJFINANCE.NS': 0.00992501102779003, 'KOTAKBANK.NS':  
 0.009704455227172474, '005380.KS': 0.009704455227172474, 'M&M.NS':  
 0.009483899426554917, '2382.TW': 0.009263343625937361, 'NBK.KW':  
 0.009042787825319804, 'KFH.KW': 0.009042787825319804, 'HINDUNILVR.NS':  
 0.009042787825319804, '2222.SR': 0.00882223202470225, '2010.SR':  
 0.008601676224084693, '000270.KS': 0.008601676224084693, 'MARUTI.NS':  
 0.008601676224084693, '7010.SR': 0.008601676224084693, '005490.KS':  
 0.008381120423467137, 'TATAMOTORS.NS': 0.008381120423467137, 'WALMEX.MX':  
 0.008381120423467137, '068270.KS': 0.008381120423467137, '2308.TW':  
 0.007940008822232024, 'GMEXICOB.MX': 0.007719453021614467, 'NTPC.NS':  
 0.007719453021614467, '105560.KS': 0.007498897220996912, '2303.TW':  
 0.007498897220996912, 'QNBK.QA': 0.007498897220996912, '1211.SR':  
 0.007498897220996912, 'SUNPHARMA.NS': 0.007278341420379356}  
 ESGD {'ASML.AS': 0.062087509166462974, 'NOVO B.CO': 0.06184307015399658,

'SAP.DE': 0.03519921779516011, '7203.T': 0.03519921779516011, 'SHELL.AS':  
 0.03397702273282816, 'MC.PA': 0.033243705695429, 'NESN.SW':  
 0.031777071620630655, 'AZN.L': 0.030310437545832316, 'TTE.PA':  
 0.028843803471033977, 'NOVN.SW': 0.028843803471033977, 'SU.PA':  
 0.026643852358836474, 'ABBN.SW': 0.022977267171840628, 'ROG.SW':  
 0.022977267171840628, 'SIE.DE': 0.02175507210950868, 'HSBA.L':  
 0.02175507210950868, '6758.T': 0.02077731605964312, '8035.T':  
 0.02004399902224395, 'CBA.AX': 0.019799560009777565, 'ULVR.L':  
 0.019066242972378394, 'REL.L': 0.017110730872647275, 'DGE.L':  
 0.016866291860180883, 'ALV.DE': 0.0166218528477145, '5108.T':  
 0.0166218528477145, 'UBSG.SW': 0.0166218528477145, 'OR.PA':  
 0.016377413835248107, 'ZURN.SW': 0.015888535810315327, '6501.T':  
 0.01564409679784894, '8001.T': 0.015155218772916158, 'IBE.MC':  
 0.014910779760449768, 'CRH.L': 0.014910779760449768, '8306.T':  
 0.014421901735516988, 'CSL.AX': 0.014177462723050599, '9433.T':  
 0.013688584698117822, 'G.MI': 0.013688584698117822, 'MUV2.DE':  
 0.013444145685651433, '7267.T': 0.012955267660718653, '9434.T':  
 0.012955267660718653, 'ML.PA': 0.012710828648252263, 'TCL.AX':  
 0.012710828648252263, 'SAN.MC': 0.012710828648252263, 'SAN.PA':  
 0.012466389635785873, 'CS.PA': 0.012466389635785873, 'GSK.L':  
 0.011733072598386704, 'BN.PA': 0.011733072598386704, 'BNP.PA':  
 0.011244194573453924, 'RIO.L': 0.010755316548521144, 'RMS.PA':  
 0.010755316548521144, 'ISP.MI': 0.010510877536054754, '8316.T':  
 0.010510877536054754, 'ALC.SW': 0.010510877536054754}  
 ESGE {'2330.TW': 0.1976923076923077, '005930.KS': 0.08711538461538464, '700.HK':  
 0.06423076923076923, '9988.HK': 0.03788461538461539, 'RELIANCE.NS':  
 0.03442307692307693, 'ICICIBANK.NS': 0.024807692307692312, 'INFY.NS':  
 0.02326923076923077, '939.HK': 0.023076923076923078, '000660.KS':  
 0.022500000000000003, '2892.TW': 0.022115384615384617, '2884.TW':  
 0.01980769230769231, 'HDFCBANK.NS': 0.019230769230769232, 'PDD':  
 0.015384615384615387, '3690.HK': 0.015192307692307696, '1120.SR':  
 0.01403846153846154, '2454.TW': 0.013461538461538462, 'HCLTECH.NS':  
 0.01307692307692308, '105560.KS': 0.01307692307692308, 'PETR4.SA':  
 0.012500000000000002, 'KOTAKBANK.NS': 0.01230769230769231, '1398.HK':  
 0.01230769230769231, 'ASIANPAINT.NS': 0.012115384615384616, 'MARICO.NS':  
 0.011923076923076925, '2881.TW': 0.011923076923076925, '9999.HK':  
 0.011730769230769232, '2010.SR': 0.011730769230769232, 'NRP.JO':  
 0.011538461538461539, '2015.HK': 0.011346153846153848, '005935.KQ':  
 0.010961538461538462, '034730.KS': 0.010769230769230772, 'NPN.JO':  
 0.010769230769230772, 'GFNORTEO.MX': 0.010769230769230772, '2882.TW':  
 0.01057692307692308, 'VOD.JO': 0.01057692307692308, '2891.TW':  
 0.010384615384615386, '035420.KS': 0.010384615384615386, '316140.KS':  
 0.010384615384615386, '2308.TW': 0.010384615384615386, 'PBBANK.KL':  
 0.010192307692307695, 'PTT-R.BK': 0.010000000000000002, 'HINDUNILVR.NS':  
 0.009807692307692309, '2886.TW': 0.009807692307692309, 'FEMSAUBD.MX':  
 0.009807692307692309, '992.HK': 0.009615384615384616, '1211.HK':  
 0.009423076923076925, 'ZOMATO.NS': 0.009423076923076925, 'QNBK.QA':  
 0.009230769230769232, '7020.SR': 0.009038461538461539, 'GFI.JO':

0.009038461538461539, '2890.TW': 0.008846153846153847}  
 ESGU {'MSFT': 0.12360961607463222, 'AAPL': 0.1001076426264801, 'NVDA':  
 0.08880516684607105, 'AMZN': 0.06727664155005383, 'GOOG': 0.05238607822030858,  
 'META': 0.042339433082167206, 'LLY': 0.024937208467886617, 'AVGO':  
 0.021349120918550412, 'JPM': 0.020810907786149982, 'TSLA': 0.019555077143882313,  
 'V': 0.018478650879081453, 'UNH': 0.01829924650161464, 'HD':  
 0.01722282023681378, 'MA': 0.017043415859346968, 'KO': 0.01632579834947973,  
 'GOOGL': 0.015428776462145678, 'TXN': 0.013455328310010766, 'COST':  
 0.013275923932543955, 'CRM': 0.013275923932543955, 'PG': 0.013096519555077145,  
 'JNJ': 0.012378902045209902, 'CVX': 0.011840688912809474, 'MRK':  
 0.011661284535342663, 'ADBE': 0.011302475780409042, 'AMD': 0.011123071402942233,  
 'AMAT': 0.010943667025475423, 'ADP': 0.010584858270541802, 'BAC':  
 0.010405453893074991, 'INTU': 0.01022604951560818, 'XOM': 0.01022604951560818,  
 'PRU': 0.010046645138141373, 'DIS': 0.009687836383207752, 'DHR':  
 0.009508432005740941, 'NFLX': 0.009508432005740941, 'PEG': 0.009508432005740941,  
 'IBM': 0.00932902762827413, 'RTX': 0.00897021887334051, 'HES':  
 0.0087908144958737, 'SPGI': 0.0087908144958737, 'ABBV': 0.00843200574094008,  
 'VZ': 0.00825260136347327, 'COP': 0.00807319698600646, 'GE':  
 0.00807319698600646, 'ORCL': 0.00789379260853965, 'PEP': 0.00789379260853965,  
 'INTC': 0.00789379260853965, 'ACN': 0.00789379260853965, 'GILD':  
 0.00789379260853965, 'TT': 0.00789379260853965, 'CSCO': 0.00789379260853965}  
 EWC {'RY': 0.08011204481792718, 'TD': 0.05826330532212885, 'CNQ':  
 0.04896358543417367, 'SHOP.NE': 0.048851540616246504, 'CP':  
 0.046386554621848736, 'ENB': 0.04201680672268908, 'CNR': 0.04056022408963585,  
 'BMO': 0.03876750700280112, 'BNS': 0.033837535014005604, 'BN.NE':  
 0.03159663865546218, 'CSU': 0.030252100840336138, 'SU': 0.028123249299719887,  
 'CM': 0.02588235294117647, 'ATD': 0.024313725490196076, 'MFC':  
 0.02420168067226891, 'TRP': 0.021624649859943976, 'ABX': 0.018151260504201683,  
 'AEM': 0.017591036414565827, 'SLF': 0.017254901960784313, 'CVE':  
 0.01703081232492997, 'IFC': 0.016358543417366946, 'NA': 0.01579831932773109,  
 'NTR': 0.015126050420168069, 'TRI': 0.014005602240896359, 'WPM':  
 0.013557422969187674, 'DOL': 0.013221288515406162, 'FFH': 0.013221288515406162,  
 'FNV': 0.01310924369747899, 'TECK.B.NE': 0.012773109243697478, 'GIB.A':  
 0.012436974789915968, 'CCO.NE': 0.012436974789915968, 'QSR.NE':  
 0.012212885154061626, 'PPL': 0.01165266106442577, 'WSP': 0.011092436974789916,  
 'FTS': 0.010644257703081233, 'L': 0.009635854341736694, 'TOU':  
 0.00918767507002801, 'POW': 0.008739495798319327, 'BAM.NE':  
 0.007955182072829131, 'MG': 0.00784313725490196, 'RCI.B': 0.00784313725490196,  
 'RBA': 0.007731092436974789, 'IMO': 0.00761904761904762, 'TFII':  
 0.007170868347338936, 'MRU': 0.006722689075630252, 'ARX': 0.006386554621848739,  
 'EMA': 0.0056022408963585435, 'OTEX': 0.0056022408963585435, 'STN':  
 0.00526610644257703, 'H': 0.00526610644257703}  
 EWJ {'7203.T': 0.10386130811662728, '8035.T': 0.04854215918045706, '8306.T':  
 0.04475965327029157, '6758.T': 0.04271079590228526, '6501.T':  
 0.0351457840819543, '6861.T': 0.03278171788810087, '8058.T':  
 0.03246650906225375, '4063.T': 0.030575256107171003, '8316.T':  
 0.02962962962962963, '6098.T': 0.0252167060677699, '8031.T':  
 0.025059101654846337, '9984.T': 0.02269503546099291, '7267.T':

0.022537431048069347, '8766.T': 0.022379826635145785, '4568.T':  
 0.022222222222222223, '8001.T': 0.02096138691883373, '7974.T':  
 0.02096138691883373, '9983.T': 0.019227738376674547, '8411.T':  
 0.019070133963750985, '4502.T': 0.017021276595744685, '9433.T':  
 0.01670606776989756, 'JPY': 0.015760441292356188, '7741.T':  
 0.015445232466509064, '6902.T': 0.014657210401891255, '9434.T':  
 0.013869188337273445, '6367.T': 0.013869188337273445, '9432.T':  
 0.01355397951142632, '4661.T': 0.01355397951142632, '6146.T':  
 0.013396375098502758, '2914.T': 0.012923561859732072, '6273.T':  
 0.012923561859732072, '6503.T': 0.012923561859732072, '6981.T':  
 0.01260835303388495, '6857.T': 0.011977935382190703, '3382.T':  
 0.011662726556343579, '7751.T': 0.011662726556343579, '8801.T':  
 0.011662726556343579, '7011.T': 0.011505122143420017, '6702.T':  
 0.011505122143420017, '6301.T': 0.01103230890464933, '6954.T':  
 0.010874704491725768, '8053.T': 0.010244286840031522, '6723.T':  
 0.010244286840031522, '4901.T': 0.01008668242710796, '8591.T':  
 0.01008668242710796, '8002.T': 0.009929078014184398, '5108.T':  
 0.009929078014184398, '8725.T': 0.00929866036249015, '4543.T':  
 0.009141055949566587, '4519.T': 0.009141055949566587}  
 EWT {'2330.TW': 0.2987951807228916, '2317.TW': 0.06313253012048194, '2454.TW':  
 0.06036144578313253, '2382.TW': 0.027469879518072286, '2308.TW':  
 0.02240963855421687, '2303.TW': 0.021686746987951807, '2891.TW':  
 0.021445783132530122, '2881.TW': 0.02012048192771084, '3711.TW':  
 0.019759036144578312, '2886.TW': 0.017710843373493976, '2412.TW':  
 0.01759036144578313, '2882.TW': 0.0163855421686747, '3034.TW':  
 0.015421686746987953, '2884.TW': 0.015060240963855422, '1216.TW':  
 0.014337349397590361, '2357.TW': 0.01349397590361446, '2885.TW':  
 0.01349397590361446, '6669.TW': 0.013132530120481928, '2892.TW':  
 0.012289156626506025, '2379.TW': 0.011927710843373494, '2002.TW':  
 0.011686746987951807, '2345.TW': 0.01144578313253012, '5880.TW':  
 0.011325301204819277, '3231.TW': 0.011325301204819277, '2890.TW':  
 0.011204819277108435, '1303.TW': 0.010722891566265061, '1301.TW':  
 0.010602409638554217, '5871.TW': 0.010481927710843374, '3037.TW':  
 0.010481927710843374, '2327.TW': 0.009879518072289156, '3702.TW':  
 0.009759036144578313, '2301.TW': 0.00963855421686747, '2883.TW':  
 0.009518072289156626, '2880.TW': 0.009518072289156626, '4938.TW':  
 0.009397590361445784, '2887.TW': 0.00927710843373494, '3008.TW':  
 0.00927710843373494, '2356.TW': 0.009156626506024097, '2353.TW':  
 0.009156626506024097, '2324.TW': 0.00891566265060241, '5876.TW':  
 0.008674698795180723, '2207.TW': 0.008554216867469879, '1590.TW':  
 0.00819277108433735, '1101.TW': 0.00819277108433735, '8069.TWO':  
 0.00819277108433735, '2395.TW': 0.008072289156626507, '3045.TW':  
 0.008072289156626507, '4904.TW': 0.00783132530120482, '1326.TW':  
 0.007710843373493976, '3661.TW': 0.007710843373493976}  
 EWU {'SHEL.L': 0.10534384581690757, 'AZN.L': 0.09461235216819976, 'HSBA.L':  
 0.06909767849321069, 'ULVR.L': 0.05234340779675866, 'BP.L':  
 0.050700832238282964, 'GSK.L': 0.03734121769601402, 'REL.L':  
 0.034713096802452915, 'DGE.L': 0.03438458169075778, 'RIO.L':



0.03339903635567236, 'GLEN.L': 0.027814279456855016, 'CRH.L':  
 0.025624178712220762, 'BATS.L': 0.025624178712220762, 'BA.L':  
 0.022010512483574243, 'LSEG.L': 0.021353482260183968, 'NG.L':  
 0.021243977222952258, 'CPG.L': 0.02058694699956198, 'RR.L':  
 0.018834866403854577, 'LLOY.L': 0.017849321068769162, 'EXP.N.L':  
 0.01675427069645204, 'RKT.L': 0.016535260621988613, 'AAL.L':  
 0.015440210249671486, 'BARC.L': 0.015330705212439772, 'III.L':  
 0.015221200175208059, 'FLTR.L': 0.014892685063512923, 'AHT.L':  
 0.014016644765659222, 'HLN.L': 0.01226456416995182, 'TSCD.L':  
 0.01106000876040298, 'PRU.L': 0.01073149364870784, 'GBP': 0.01029347349978099,  
 'SSE.L': 0.009964958388085853, 'NWG.L': 0.0086508979413053, 'VOD.L':  
 0.008541392904073589, 'STAN.L': 0.008322382829610163, 'LGEN.L':  
 0.00821287779237845, 'IMB.L': 0.007884362680683312, 'IHG.L':  
 0.007117827420061324, 'AV.L': 0.0067893123083661855, 'SGE.L':  
 0.006679807271134473, 'RTO.L': 0.006351292159439334, 'INF.L':  
 0.00613228208497591, 'NXT.L': 0.0060227770477441975, 'SGRO.L':  
 0.0060227770477441975, 'BNZL.L': 0.005584756898817346, 'ANTO.L':  
 0.0049277266754270705, 'MRO.L': 0.004708716600963644, 'HLMA.L':  
 0.004708716600963644, 'SN.L': 0.0045992115637319315, 'WPP.L':  
 0.0045992115637319315, 'ABF.L': 0.004489706526500219, 'ITRK.L':  
 0.004270696452036794}  
 EWW {'GFNORTEO.MX': 0.1251749650069986, 'FEMSAUBD.MX': 0.11047790441911619,  
 'WALMEX.MX': 0.09308138372325536, 'AMXB.MX': 0.07718456308738253, 'GMEXICOB.MX':  
 0.05408918216356729, 'CEMEXCPO.MX': 0.048590281943611285, 'GFINBURO.MX':  
 0.03109378124375125, 'GAPB.MX': 0.02939412117576485, 'ASURB.MX':  
 0.028994201159768047, 'BIMBOA.MX': 0.02549490101979604, 'AC.MX':  
 0.02399520095980804, 'FUNO11.MX': 0.023795240951809637, 'KOFUBL.MX':  
 0.022495500899820036, 'GCARSOA1.MX': 0.02239552089582084, 'GRUMAB.MX':  
 0.019296140771845632, 'PE&OLES.MX': 0.01799640071985603, 'KIMBERA.MX':  
 0.01729654069186163, 'FIBRAPL14.MX': 0.016596680663867228, 'VESTA.MX':  
 0.014597080583883223, 'OMAB.MX': 0.014397120575884824, 'BBAJIOO.MX':  
 0.014297140571885622, 'ALSEA.MX': 0.013197360527894423, 'Q.MX':  
 0.012897420515896822, 'PINFRA.MX': 0.01269746050789842, 'RA.MX':  
 0.011797640471905619, 'ALFAA.MX': 0.011097780443911218, 'ORBIA.MX':  
 0.010897820435912819, 'GCC.MX': 0.010797840431913619, 'TERRA13.MX':  
 0.010697860427914417, 'GENTERA.MX': 0.010297940411917617, 'FIBRAMQ12.MX':  
 0.008298340331933614, 'SITES1A-1.MX': 0.008298340331933614, 'TLEVISACPO.MX':  
 0.007398520295940812, 'LACOMERUBC.MX': 0.00609878024395121, 'BOLSAA.MX':  
 0.005498900219956009, 'TRAXIONA.MX': 0.004899020195960808, 'LABB.MX':  
 0.004599080183963208, 'MEGACPO.MX': 0.004099180163967206, 'VOLARA.MX':  
 0.0032993401319736057, 'DANHOS13.MX': 0.002999400119976005, 'AGUA.MX':  
 0.0028994201159768048, 'MXN': 0.0024995000999800043, 'NEMAKA.MX':  
 0.0023995200959808036, 'ALPEKA.MX': 0.0013997200559888025, 'SALFT':  
 0.00019996000799840034, 'XTSLA': 9.998000399920017e-05, 'ISM4': 0.0, 'USD':  
 -9.998000399920017e-05}  
 EWY {'005930.KS': 0.2913395054494316, '000660.KS': 0.1021914918551506,  
 '005380.KS': 0.0339857025665065, '000270.KS': 0.030118363998593693, '068270.KS':  
 0.02906363529825384, '005490.KS': 0.028946443220438302, '105560.KS':

0.026954177897574122, '035420.KS': 0.02496191257470995, '006400.KS':  
 0.022735263096214695, '051910.KS': 0.020157037384272825, '055550.KS':  
 0.019922653228641743, '086790.KS': 0.01793038790577757, '373220.KS':  
 0.01699285128325325, '012330.KS': 0.016406890894175553, 'KRW':  
 0.016055314660728938, '207940.KS': 0.015703738427282316, '035720.KS':  
 0.015000585960389078, '028300.KQ': 0.013477088948787061, '028260.KS':  
 0.013359896870971522, '066570.KS': 0.011602015703738427, '247540.KQ':  
 0.011367631548107347, '033780.KS': 0.01089886323684519, '009150.KS':  
 0.01089886323684519, '000810.KS': 0.01078167115902965, '086520.KQ':  
 0.010195710769951951, '138040.KS': 0.010195710769951951, '316140.KS':  
 0.009961326614320871, '003670.KS': 0.009375366225243174, '003550.KS':  
 0.008320637524903316, '012450.KS': 0.008203445447087777, '402340.KS':  
 0.008086253369272236, '010140.KS': 0.007734677135825619, '096770.KS':  
 0.007500292980194539, '032830.KS': 0.007500292980194539, '005387.KQ':  
 0.007383100902379, '034730.KS': 0.007383100902379, '042700.KS':  
 0.00726590882456346, '259960.KS': 0.00726590882456346, '034020.KS':  
 0.00714871674674792, '161390.KS': 0.00691433259111684, '018260.KS':  
 0.006562756357670222, '015760.KS': 0.006445564279854683, '009540.KS':  
 0.006093988046408063, '010130.KS': 0.006093988046408063, '005830.KS':  
 0.005976795968592523, '000100.KS': 0.005976795968592523, '005385.KQ':  
 0.005508027657330364, '090430.KS': 0.005508027657330364, '047810.KS':  
 0.005273643501699285, '028050.KS': 0.005273643501699285}  
 EWZ {'VALE3.SA': 0.11049779205138498, 'PETR4.SA': 0.09654757125652348,  
 'ITUB4.SA': 0.08179446005620233, 'PETR3.SA': 0.07788036932958652, 'BBDC4.SA':  
 0.038338016860698515, 'WEGE3.SA': 0.035427539140907266, 'B3SA3.SA':  
 0.03532717784022481, 'ABEV3.SA': 0.02920513849859494, 'BBAS3.SA':  
 0.028101164191087914, 'RENT3.SA': 0.026796467282215977, 'ITSA4.SA':  
 0.026395022079486147, 'SUZB3.SA': 0.026194299478121234, 'ELET3.SA':  
 0.023785628261742273, 'PRI03.SA': 0.019971898835808913, 'BPAC11.SA':  
 0.019971898835808913, 'EQTL3.SA': 0.019269369731031712, 'RADL3.SA':  
 0.01756322761942995, 'RAIL3.SA': 0.01716178241670012, 'SBSP3.SA':  
 0.016760337213970293, 'GGBR4.SA': 0.015054195102368526, 'BBSE3.SA':  
 0.013849859494179044, 'VBBR3.SA': 0.013649136892814133, 'VIVT3.SA':  
 0.01274588518667202, 'UGPA3.SA': 0.012244078683259736, 'KLBN11.SA':  
 0.01114010437575271, 'CMIG4.SA': 0.011039743075070253, 'JBSS3.SA':  
 0.01013649136892814, 'HAPV3.SA': 0.009935768767563228, 'TIMS3.SA':  
 0.009835407466880771, 'CSAN3.SA': 0.009333600963468486, 'LREN3.SA':  
 0.00923323966278603, 'CCRO3.SA': 0.00923323966278603, 'BBDC3.SA':  
 0.008631071858691289, 'NTCO3.SA': 0.008631071858691289, 'ASAI3.SA':  
 0.008329987956643917, 'HYPE3.SA': 0.0074267362505018066, 'ELET6.SA':  
 0.0072260136491368926, 'SANB11.SA': 0.006824568446407066, 'RDOR3.SA':  
 0.006322761942994781, 'TOTS3.SA': 0.006322761942994781, 'EGIE3.SA':  
 0.00602167804094741, 'CSNA3.SA': 0.005921316740264954, 'BRL':  
 0.00541951023685267, 'ENGI11.SA': 0.005319148936170213, 'CPFE3.SA':  
 0.004215174628663187, 'ENEV3.SA': 0.004215174628663187, 'CXSE3.SA':  
 0.00411481332798073, 'CRFB3.SA': 0.00411481332798073, 'CPLE6.SA':  
 0.0035126455238859893, 'MGLU3.SA': 0.003010839020473705}  
 EZU {'ASML.AS': 0.10538994278831675, 'MC.PA': 0.06218006624510688, 'SAP.DE':

0.05149051490514904, 'TTE.PA': 0.04320987654320987, 'SIE.DE':  
 0.03778982234266786, 'SU.PA': 0.03282143932550436, 'ALV.DE':  
 0.029509183980728687, 'OR.PA': 0.028756398675097855, 'SAN.PA':  
 0.028304727491719354, 'AI.PA': 0.028304727491719354, 'AIR.PA':  
 0.027853056308340857, 'SAN.MC': 0.020776874435411014, 'RMS.PA':  
 0.02062631737428485, 'SAF.PA': 0.020325203252032516, 'IBE.MC':  
 0.019873532068654016, 'DTE.DE': 0.01972297500752785, 'BNP.PA':  
 0.019421860885275515, 'CS.PA': 0.017615176151761513, 'MBG.DE':  
 0.017464619090635347, 'EL.PA': 0.017163504968383012, 'BBVA.MC':  
 0.01686239084613068, 'MUV2.DE': 0.016260162601626015, 'DG.PA':  
 0.016260162601626015, 'STLAM.MI': 0.015507377295995179, 'UCG.MI':  
 0.015206263173742846, 'INGA.AS': 0.014302920806985843, 'RACE.MI':  
 0.014152363745859677, 'ISP.MI': 0.013851249623607344, 'ABI.BR':  
 0.013851249623607344, 'ENEL.MI': 0.013851249623607344, 'ITX.MC':  
 0.013700692562481178, 'BAS.DE': 0.013249021379102676, 'PRX.AS':  
 0.012345679012345675, 'IFX.DE': 0.012044564890093343, 'DHL.DE':  
 0.011141222523336342, 'BN.PA': 0.010689551339957842, 'DB1.DE':  
 0.010388437217705507, 'WKL.AS': 0.010087323095453175, 'BMW.DE':  
 0.010087323095453175, 'ENI.MI': 0.009936766034327008, 'NDA FI.HE':  
 0.009936766034327008, 'SGO.PA': 0.009485094850948507, 'CAP.PA':  
 0.00933453778982234, 'ADS.DE': 0.009183980728696174, 'ADYEN.AS':  
 0.00888286660644384, 'ENGI.PA': 0.00843119542306534, 'RI.PA':  
 0.008280638361939173, 'DBK.DE': 0.008280638361939173, 'EOAN.DE':  
 0.008130081300813007, 'STMPA.PA': 0.007678410117434506}  
 FXI {'700.HK': 0.0990783410138249, '9988.HK': 0.08685634141454619, '3690.HK':  
 0.08555399719495091, '939.HK': 0.07022640753356041, '1398.HK':  
 0.04918853937086757, '3988.HK': 0.04047285113203767, '9999.HK':  
 0.0391705069124424, '1810.HK': 0.037868162692847124, '9618.HK':  
 0.03766780204367862, '9888.HK': 0.034161490683229816, '9961.HK':  
 0.03225806451612904, '1211.HK': 0.032157884191544785, '2318.HK':  
 0.029853736726106993, '857.HK': 0.023842917251051893, '1024.HK':  
 0.02013624524143458, '2015.HK': 0.01993588459226608, '3968.HK':  
 0.01873372069725506, '9987.HK': 0.018433179723502308, '386.HK':  
 0.01743137647765979, '1088.HK': 0.017130835503907035, '2020.HK':  
 0.016730114205570027, '2899.HK': 0.016028851933480266, '1288.HK':  
 0.016028851933480266, '9633.HK': 0.011921458625525946, '2328.HK':  
 0.010518934081346425, '2628.HK': 0.010318573432177921, '1109.HK':  
 0.010118212783009417, '6690.HK': 0.009116409537166902, '6160.HK':  
 0.008314966940492887, '688.HK': 0.0070126227208976155, '267.HK':  
 0.0070126227208976155, '1658.HK': 0.006511721097976358, '998.HK':  
 0.006110999799639351, '1171.HK': 0.006010819475055099, '3328.HK':  
 0.005910639150470847, '2601.HK': 0.005810458825886596, '1816.HK':  
 0.004307753957122821, '2333.HK': 0.004107393307954317, '1919.HK':  
 0.004107393307954317, '1339.HK': 0.0032057703866960534, '6030.HK':  
 0.0030054097375275496, '1988.HK': 0.002704868763774795, '1898.HK':  
 0.0026046884391905433, '1766.HK': 0.0026046884391905433, '390.HK':  
 0.0025045081146062914, '3908.HK': 0.002003606491685033, '2359.HK':  
 0.0018032458425165298, '1880.HK': 0.00120216389501102, 'HKD':

0.0011019835704267683, '6818.HK': 0.0011019835704267683}  
 HDV {'XOM': 0.09152507036380694, 'CVX': 0.06963410820389868, 'VZ':  
 0.059939539247367876, 'JNJ': 0.05712498696966539, 'ABBV': 0.05285103721463568,  
 'MRK': 0.042739497550297094, 'PM': 0.042322526842489314, 'PEP':  
 0.038674033149171276, 'KO': 0.03804857708745961, 'MO': 0.03700615031794017,  
 'CSCO': 0.033670384655477954, 'IBM': 0.030334618993015743, 'WFC':  
 0.026790367976649642, 'TXN': 0.024601271760658815, 'COP': 0.0231418742833316,  
 'CMCSA': 0.0231418742833316, 'MDT': 0.018555196497446056, 'PXD':  
 0.01813822578963828, 'DUK': 0.017200041697070782, 'SO': 0.01584488689669551,  
 'LMT': 0.015115188158031898, 'BX': 0.014593974773272178, 'FANG':  
 0.014177004065464403, 'PNC': 0.01334306264984885, 'EOG': 0.013238819972896906,  
 'DVN': 0.012509121234233296, 'WMB': 0.012196393203377462, 'KMI':  
 0.012196393203377462, 'PSX': 0.010736995726050247, 'DOW': 0.010736995726050247,  
 'AEP': 0.009798811633482748, 'KMB': 0.008547899510059418, 'APD':  
 0.0080266861252997, 'SRE': 0.00781820077139581, 'GIS': 0.007296987386636089,  
 'LYB': 0.0070885020327322015, 'PAYX': 0.006358803294068592, 'PEG':  
 0.006254560617116648, 'TROW': 0.005733347232356928, 'WEC': 0.005524861878453039,  
 'KDP': 0.004586677785885542, 'FE': 0.004586677785885542, 'DTE':  
 0.004273949755029709, 'HSY': 0.004273949755029709, 'PPL': 0.0037527363702699887,  
 'AMCR': 0.0037527363702699887, 'CTRA': 0.0033357656624622123, 'CLX':  
 0.0030230376316063797, 'DRI': 0.002918794954654436, 'GPC': 0.002918794954654436}  
 HEFA {'EFA': 0.9856914148489093, 'EUR': 0.0, 'JPY': 0.0, 'GBP': 0.0, 'CHF': 0.0,  
 'XTSLA': 0.0007004202521512907, 'SEK': 0.0, 'AUD': 0.0, 'DKK': 0.0, 'ILS': 0.0,  
 'SGD': 0.0, 'HKD': 0.0, 'NOK': 0.0, 'USD': 0.0, 'NZD': 0.0}  
 IBB {'AMGN': 0.09947643979057592, 'GILD': 0.09614469300333175, 'VRTX':  
 0.09602570204664447, 'REGN': 0.095430747263208, 'IQV': 0.052118039029033794,  
 'MRNA': 0.04366968110423608, 'BIIB': 0.03545930509281295, 'MTD':  
 0.03307948595906711, 'ILMN': 0.02486910994764398, 'WAT': 0.023679200380771065,  
 'ARGX': 0.02356020942408377, 'ALNY': 0.023084245597334605, 'BNTX':  
 0.02213231794383627, 'BMRN': 0.021180390290337938, 'GMAB': 0.020347453593526892,  
 'NBIX': 0.016182770109471684, 'CRL': 0.014992860542598765, 'INCY':  
 0.01475487862922418, 'BGNE': 0.01415992384578772, 'SRPT': 0.01344597810566397,  
 'NTRA': 0.012970014278914805, 'TECH': 0.012851023322227513, 'UTHR':  
 0.012494050452165638, 'MEDP': 0.01201808662541647, 'RGEN': 0.011066158971918136,  
 'LEGN': 0.00999524036173251, 'BRKR': 0.009757258448357925, 'CYTK':  
 0.008805330794859591, 'ASND': 0.008805330794859591, 'EXEL':  
 0.008329366968110425, 'PCVX': 0.007853403141361258, 'ITCI':  
 0.007734412184673966, 'IONS': 0.006901475487862923, 'ROIV':  
 0.006544502617801048, 'BPMC': 0.006544502617801048, 'APLS':  
 0.0063065207044264646, 'RVMD': 0.00606853879105188, 'HALO':  
 0.005949547834364589, 'CRSP': 0.005949547834364589, 'KRYX':  
 0.005116611137553547, 'ALKS': 0.004997620180866255, 'INSM':  
 0.0048786292241789625, 'MDGL': 0.004759638267491671, 'BHVN':  
 0.004521656354117088, 'RARE': 0.004521656354117088, 'BBIO':  
 0.004283674440742504, 'FTRE': 0.004283674440742504, 'TXG': 0.004164683484055212,  
 'CRNX': 0.003926701570680629, 'FOLD': 0.003807710613993337}  
 ICLN {'FSLR': 0.11045521625610173, 'ENPH': 0.0978544670223635, 'VWS.CO':  
 0.059371097740946774, 'ORSTED.CO': 0.05903053695084574, '600900.SS':

0.052673402202293114, 'NXT': 0.04438642297650131, '9502.T': 0.03712112612101261,  
 'EDP.LS': 0.030196390055624935, 'SUZLON.NS': 0.029288227948688846, 'SEDG':  
 0.028493586105119765, 'ORA': 0.02656374162788058, 'NHPC.NS':  
 0.023044613463503234, 'CMIG4.SA': 0.021114768986264052, 'NPI':  
 0.019411965035758885, 'RUN': 0.019411965035758885, 'ENGI11.SA':  
 0.01736860029515269, 'BE': 0.01736860029515269, '009830.KS':  
 0.016233397661482577, 'CWEN': 0.014417073447610401, 'AGR': 0.01430355318424339,  
 'ARRY': 0.014190032920876379, 'EDPR.LS': 0.0133953910773073, 'NDX1.DE':  
 0.013168350550573278, 'PLUG': 0.012033147916903169, 'SHLS':  
 0.011919627653536158, '600905.SS': 0.011579066863435124, 'ERG.MI':  
 0.011011465546600069, 'GPRES': 0.010784425019866047, 'EA-R.BK':  
 0.010330343966398004, 'VER.VI': 0.009649222386195937, 'CPFE3.SA':  
 0.009649222386195937, 'ANE.MC': 0.009195141332727894, '300274.SZ':  
 0.009081621069360883, '601012.SS': 0.008968100805993872, 'BKW.SW':  
 0.008854580542626861, '112610.KS': 0.008627540015892839, '9958.TW':  
 0.008059938699057783, '6865.HK': 0.007378817118855717, 'S92.DE':  
 0.0068112158020206615, '586.HK': 0.0068112158020206615, 'BLX':  
 0.00669769553865365, 'ECV.DE': 0.006584175275286639, '600674.SS':  
 0.006470655011919628, 'CSIQ': 0.006243614485185607, 'SJV.NS':  
 0.006130094221818596, 'SLR.MC': 0.0060165739584515845, 'BEPC.NE':  
 0.005789533431717562, '600025.SS': 0.00556249290498354, 'NEL.OL':  
 0.00556249290498354, 'NEOEN.PA': 0.005335452378249518}  
 IDEV {'NOVO B.CO': 0.06326598211328255, 'ASML.AS': 0.05995362702881749,  
 'NESN.SW': 0.042066909572706195, '7203.T': 0.040079496522027164, 'SHELL.AS':  
 0.03643590592911561, 'MC.PA': 0.03511096389532958, 'AZN.L':  
 0.032792315336204046, 'NOVN.SW': 0.029811195760185497, 'SAP.DE':  
 0.029148724743292484, 'ROG.SW': 0.02649884067572044, 'TTE.PA':  
 0.024511427625041406, 'HSBA.L': 0.0241801921165949, 'BHP.AX':  
 0.02285525008280888, 'SIE.DE': 0.021530308049022857, 'RY': 0.02119907254057635,  
 'CBA.AX': 0.019211659489897316, '8035.T': 0.01888042398145081, 'SU.PA':  
 0.01854918847300431, 'ULVR.L': 0.017886717456111298, 'BP.L':  
 0.01755548194766479, '8306.T': 0.017224246439218285, 'ALV.DE':  
 0.01689301093077178, '6758.T': 0.016561775422325276, 'OR.PA':  
 0.01623053991387877, 'SAN.PA': 0.015899304405432264, 'AI.PA':  
 0.015899304405432264, 'TD': 0.015568068896985757, 'AIR.PA':  
 0.015568068896985757, 'UBSG.SW': 0.014574362371646242, 'CSL.AX':  
 0.013580655846306725, '6501.T': 0.013580655846306725, 'CNQ':  
 0.01324942033786022, 'SHOP.NE': 0.012918184829413714, '8058.T':  
 0.012918184829413714, 'GSK.L': 0.012918184829413714, '6861.T':  
 0.01258694932096721, 'CP': 0.012255713812520703, 'REL.L': 0.011924478304074197,  
 'RMS.PA': 0.011924478304074197, '4063.T': 0.011924478304074197, 'DGE.L':  
 0.011924478304074197, 'SAN.MC': 0.01159324279562769, 'CFR.SW':  
 0.01159324279562769, 'RIO.L': 0.01159324279562769, '8316.T':  
 0.011262007287181188, 'SAF.PA': 0.011262007287181188, 'ABBN.SW':  
 0.011262007287181188, 'IBE.MC': 0.011262007287181188, 'BNP.PA':  
 0.011262007287181188, 'DTE.DE': 0.011262007287181188}  
 IDV {'BATS.L': 0.05547578645085498, 'TTE.PA': 0.04816603576556585, 'BHP.AX':  
 0.046338598094243566, 'MBG.DE': 0.04216159770264979, 'RIO.L':

0.038376191097767916, 'VOD.L': 0.034982378279597964, 'ENEL.MI':  
 0.034590784492886044, 'INGA.AS': 0.03171909672366532, 'ENI.MI':  
 0.03067484662576687, 'FMG.AX': 0.028716877692207286, 'TEF.MC':  
 0.028716877692207286, 'NG.L': 0.027150502545359615, 'IMB.L':  
 0.025584127398511944, 'VOW3.DE': 0.024409346038376193, 'BNS':  
 0.022451377104816605, 'ORA.PA': 0.020362876909019712, 'CABK.MC':  
 0.0201018143845451, 'ZURN.SW': 0.019188095548883958, 'SSE.L':  
 0.018665970499934733, 'FORTUM.HE': 0.017491189139798982, '1.HK':  
 0.01670800156637515, 'BAMI.MI': 0.01592481399295131, 'ACA.PA':  
 0.015794282730714006, 'LGEN.L': 0.015794282730714006, 'NWG.L':  
 0.01501109515729017, 'BMW3.DE': 0.014880563895052865, 'DANSKE.CO':  
 0.014750032632815558, 'BT.A.L': 0.014358438846103643, 'DNB.OL':  
 0.014358438846103643, 'MFC': 0.013966845059391724, 'OMV.VI':  
 0.013966845059391724, 'SREN.SW': 0.01383631379715442, 'SRG.MI':  
 0.013705782534917114, 'TELIA.ST': 0.013575251272679808, 'APA.AX':  
 0.013314188748205195, 'RED.MC': 0.013183657485967889, 'EMA':  
 0.013053126223730584, 'NN.AS': 0.012922594961493278, 'RUI.PA':  
 0.011747813601357526, '12.HK': 0.011486751076882913, 'PHNX.L':  
 0.011356219814645607, '2388.HK': 0.010703563503459078, '11.HK':  
 0.010703563503459078, 'ACS.MC': 0.010442500978984467, 'PEY':  
 0.010311969716747162, 'AGS.BR': 0.009920375930035244, '8.HK':  
 0.009920375930035244, '005387.KQ': 0.009789844667797937, 'ENG.MC':  
 0.009659313405560631, 'EN.PA': 0.009528782143323325}  
 IEFA {'NOVO B.CO': 0.06435944140862175, 'ASML.AS': 0.06132361870066789,  
 'NESN.SW': 0.042805100182149364, '7203.T': 0.04128718882817244, 'SHEL.L':  
 0.037340619307832425, 'MC.PA': 0.03612629022465088, 'AZN.L':  
 0.033394049787492414, 'NOVN.SW': 0.030358227079538558, 'SAP.DE':  
 0.029751062537947785, 'ROG.SW': 0.027322404371584702, 'TTE.PA':  
 0.025197328476017, 'HSBA.L': 0.024590163934426233, 'BHP.AX':  
 0.02337583485124469, 'SIE.DE': 0.02185792349726776, 'CBA.AX':  
 0.019732847601700063, '8035.T': 0.01912568306010929, 'SU.PA':  
 0.01912568306010929, 'ULVR.L': 0.01851851851851852, 'BP.L': 0.01791135397692775,  
 '8306.T': 0.017607771706132362, 'ALV.DE': 0.017304189435336976, '6758.T':  
 0.017000607164541593, 'OR.PA': 0.016697024893746207, 'SAN.PA':  
 0.01639344262295082, 'AI.PA': 0.01639344262295082, 'AIR.PA':  
 0.016089860352155438, 'UBSG.SW': 0.014875531268973893, '6501.T':  
 0.013964784456587737, 'CSL.AX': 0.013964784456587737, 'GSK.L':  
 0.013054037644201578, '6861.T': 0.013054037644201578, '8058.T':  
 0.012750455373406194, 'REL.L': 0.012446873102610808, 'DGE.L':  
 0.012143290831815423, '4063.T': 0.012143290831815423, 'RMS.PA':  
 0.012143290831815423, 'SAN.MC': 0.011839708561020037, 'CFR.SW':  
 0.011839708561020037, 'SAF.PA': 0.011839708561020037, '8316.T':  
 0.011839708561020037, 'RIO.L': 0.011536126290224652, 'ABBN.SW':  
 0.011536126290224652, 'IBE.MC': 0.011536126290224652, 'DTE.DE':  
 0.011536126290224652, 'ZURN.SW': 0.011232544019429266, 'BNP.PA':  
 0.011232544019429266, '1299.HK': 0.011232544019429266, 'NAB.AX':  
 0.01092896174863388, 'CS.PA': 0.01032179720704311, 'MBG.DE':  
 0.010018214936247724}

IEMG {'2330.TW': 0.2036474164133739, '005930.KS': 0.09477756286266925, '700.HK':  
 0.08538270240397901, '9988.HK': 0.04863221884498481, 'RELIANCE.NS':  
 0.03481624758220503, '000660.KS': 0.024039789997236806, 'PDD':  
 0.02265819287095883, 'ICICIBANK.NS': 0.022381873445703235, '3690.HK':  
 0.02155291516993645, 'INFY.NS': 0.019342359767891684, '939.HK':  
 0.019066040342636086, '2317.TW': 0.018789720917380494, '2454.TW':  
 0.017960762641613708, 'HDFCBANK.NS': 0.01657916551533573, '1120.SR':  
 0.014368610113290966, 'TCS.NS': 0.01409229068803537, '005935.KQ':  
 0.013539651837524178, 'VALE3.SA': 0.013263332412268583, 'XTSLA':  
 0.012710693561757393, '9999.HK': 0.012158054711246202, 'PETR4.SA':  
 0.01160541586073501, 'BBCA.JK': 0.01105277701022382, 'BHARTIARTL.NS':  
 0.01105277701022382, '1398.HK': 0.010776457584968225, '3988.HK':  
 0.010776457584968225, '1180.SR': 0.01050013815971263, '1810.HK':  
 0.01050013815971263, 'NPN.JO': 0.01050013815971263, '9618.HK':  
 0.009947499309201437, 'ITUB4.SA': 0.009947499309201437, 'LT.NS':  
 0.009671179883945842, 'AXISBANK.NS': 0.009671179883945842, 'PETR3.SA':  
 0.009671179883945842, '1211.HK': 0.009118541033434652, '9888.HK':  
 0.009118541033434652, '9961.HK': 0.008842221608179057, 'GFNORTEO.MX':  
 0.008842221608179057, '2318.HK': 0.00856590218292346, 'BBRI.JK':  
 0.00801326333241227, 'FEMSAUBD.MX': 0.007736943907156674, 'BAJFINANCE.NS':  
 0.007736943907156674, 'KOTAKBANK.NS': 0.007736943907156674, '005380.KS':  
 0.007736943907156674, 'M&M.NS': 0.007736943907156674, '2382.TW':  
 0.007460624481901079, 'NBK.KW': 0.007460624481901079, 'KFH.KW':  
 0.007460624481901079, 'HINDUNILVR.NS': 0.007184305056645483, '2222.SR':  
 0.006907985631389887, '2010.SR': 0.006907985631389887}  
 IEUR {'NOVO B.CO': 0.07265692175408425, 'ASML.AS': 0.06900257953568358,  
 'NESN.SW': 0.048366294067067925, 'SHEL.L': 0.04213241616509028, 'MC.PA':  
 0.040842648323301804, 'AZN.L': 0.037833190025795355, 'NOVN.SW':  
 0.034393809114359415, 'SAP.DE': 0.03353396388650043, 'ROG.SW':  
 0.030739466895958724, 'TTE.PA': 0.028374892519346516, 'HSBA.L':  
 0.027730008598452278, 'SIE.DE': 0.024720550300945825, 'SU.PA':  
 0.021281169389509885, 'ULVR.L': 0.020851246775580392, 'BP.L':  
 0.020206362854686154, 'ALV.DE': 0.01934651762682717, 'OR.PA':  
 0.018701633705932932, 'SAN.PA': 0.018486672398968184, 'AI.PA':  
 0.01827171109200344, 'AIR.PA': 0.01805674978503869, 'UBSG.SW':  
 0.01698194325021496, 'GSK.L': 0.014832330180567496, 'REL.L':  
 0.013757523645743765, 'DGE.L': 0.013757523645743765, 'SAN.MC':  
 0.01354256233877902, 'RMS.PA': 0.013327601031814273, 'CFR.SW':  
 0.013327601031814273, 'RIO.L': 0.013327601031814273, 'SAF.PA':  
 0.013112639724849526, 'DTE.DE': 0.01289767841788478, 'ABBN.SW':  
 0.01289767841788478, 'BNP.PA': 0.01289767841788478, 'IBE.MC':  
 0.01289767841788478, 'ZURN.SW': 0.01289767841788478, 'CS.PA':  
 0.011392949269131557, 'MBG.DE': 0.011392949269131557, 'EL.PA':  
 0.01117798796216681, 'GLEN.L': 0.01117798796216681, 'BBVA.MC':  
 0.010963026655202063, 'DG.PA': 0.010748065348237317, 'MUV2.DE':  
 0.01053310404127257, 'CRH.L': 0.010318142734307824, 'BATS.L':  
 0.010318142734307824, 'STLAM.MI': 0.010103181427343077, 'UCG.MI':  
 0.009888220120378332, 'INGA.AS': 0.009673258813413585, 'RACE.MI':

0.009243336199484092, 'ISP.MI': 0.009028374892519345, 'ABI.BR':  
 0.009028374892519345, 'ITX.MC': 0.009028374892519345}  
 IFRA {'NRG': 0.024777807702666313, 'VST': 0.024239159709130088, 'ETRN':  
 0.0223538917317533, 'MGEE': 0.0223538917317533, 'TGB': 0.0223538917317533,  
 'CENX': 0.02181524373821708, 'AGR': 0.02181524373821708, 'NEE':  
 0.02154591974144897, 'CEG': 0.021276595744680854, 'KNTK': 0.02073794775114463,  
 'D': 0.02073794775114463, 'DTM': 0.020468623754376518, 'XEL':  
 0.020199299757608407, 'ENLC': 0.020199299757608407, 'PNW': 0.020199299757608407,  
 'PEG': 0.019929975760840293, 'OKE': 0.019929975760840293, 'WMB':  
 0.019660651764072182, 'DUK': 0.019660651764072182, 'OGS': 0.019660651764072182,  
 'KMI': 0.019660651764072182, 'EVRG': 0.019660651764072182, 'IDA':  
 0.019660651764072182, 'NI': 0.019660651764072182, 'EIX': 0.019391327767304067,  
 'ALE': 0.019391327767304067, 'AM': 0.019391327767304067, 'SO':  
 0.019391327767304067, 'EXC': 0.019391327767304067, 'FE': 0.019391327767304067,  
 'ETR': 0.019391327767304067, 'AVA': 0.019391327767304067, 'PPL':  
 0.019391327767304067, 'ED': 0.019391327767304067, 'NWE': 0.019122003770535956,  
 'BKH': 0.019122003770535956, 'ATO': 0.019122003770535956, 'POR':  
 0.019122003770535956, 'AQN': 0.019122003770535956, 'WEC': 0.019122003770535956,  
 'ES': 0.019122003770535956, 'AEE': 0.019122003770535956, 'LNT':  
 0.019122003770535956, 'OGE': 0.018852679773767842, 'CNP': 0.018852679773767842,  
 'PCG': 0.018852679773767842, 'CPK': 0.018852679773767842, 'CMS':  
 0.018852679773767842, 'ARTNA': 0.01858335577699973, 'WTRG': 0.01858335577699973}  
 IGF {'NEE': 0.054428239272881, 'TCL.AX': 0.05379412386387655, 'AENA.MC':  
 0.05051786091735363, 'ENB': 0.0430141619108011, 'SO': 0.032974001268230815,  
 'PAC': 0.03265694356372859, 'DUK': 0.03223419995772563, 'AIA.NZ':  
 0.0321285140562249, 'IBE.MC': 0.030754597336715282, 'ASR': 0.029697738321707884,  
 'WMB': 0.027372648488691607, 'GET.PA': 0.027161276685690124, 'OKE':  
 0.027161276685690124, 'CEG': 0.026949904882688645, 'ADP.PA':  
 0.025681674064679774, 'TRP': 0.02219403931515536, 'LNG': 0.022088353413654616,  
 'ENEL.MI': 0.021242866201648697, 'NG.L': 0.02113718030014796, 'KMI':  
 0.020714436694145, 'FHZN.SW': 0.020291693088142042, 'ALX.AX':  
 0.01997463538363982, 'QUB.AX': 0.019657577679137603, 'SRE':  
 0.019023462270133164, 'AEP': 0.019023462270133164, 'D': 0.018072289156626505,  
 '9706.T': 0.017543859649122806, 'EXC': 0.01595857112661171, 'PCG':  
 0.01553582752060875, 'TRGP': 0.01511308391460579, 'PEG': 0.014478968505601352,  
 'OMAB': 0.014056224899598393, 'ED': 0.013422109490593954, 'EOAN.DE':  
 0.013105051786091735, 'ENGI.PA': 0.012999365884590995, 'XEL':  
 0.012893679983090255, 'EIX': 0.011625449165081379, 'PPL': 0.011308391460579159,  
 'WEC': 0.01099133375607694, 'AWK': 0.00993447474106954, 'S58.SI':  
 0.00993447474106954, 'FRA.DE': 0.008771929824561403, '144.HK':  
 0.008454872120059184, '177.HK': 0.0064468399915451275, '576.HK':  
 0.00538998097653773, '152.HK': 0.00528429507503699, 'ENAV.MI':  
 0.00517860917353625, '1199.HK': 0.004544493764531811, 'DTM':  
 0.003593320651025153, 'EBR': 0.0034876347495244133}  
 IGM {'AAPL': 0.10332990044627532, 'MSFT': 0.10207117519166954, 'META':  
 0.09886714727085481, 'NVDA': 0.09417553495823322, 'GOOGL': 0.06305069229889004,  
 'GOOG': 0.05320974939924478, 'AVGO': 0.050005721478430035, 'CRM':  
 0.026890948621123702, 'NFLX': 0.025517793797917385, 'AMD': 0.024945645954914757,



'ADBE': 0.02025403364229317, 'ACN': 0.0186520196818858, 'CSCO':  
 0.0186520196818858, 'ORCL': 0.0181943014074837, 'QCOM': 0.018079871838883172,  
 'INTU': 0.0164778578784758, 'AMAT': 0.016363428309875274, 'IBM':  
 0.015791280466872643, 'NOW': 0.014875843918068432, 'TXN': 0.014303696075065798,  
 'INTC': 0.014303696075065798, 'MU': 0.012816111683258958, 'LRCX':  
 0.011900675134454745, 'ADI': 0.009039935919441586, 'KLAC': 0.008696647213640007,  
 'PANW': 0.008353358507838426, 'SNPS': 0.008010069802036847, 'SHOP.NE':  
 0.008010069802036847, 'CDNS': 0.007895640233436321, 'CRWD': 0.00663691497883053,  
 'ANET': 0.006408055841629479, 'APH': 0.006408055841629479, 'MRVL':  
 0.00572147843002632, 'NXPI': 0.00572147843002632, 'ROP': 0.00537818972422474,  
 'MSI': 0.00537818972422474, 'WDAY': 0.005263760155624214, 'SNOW':  
 0.004920471449822635, 'ADSK': 0.004806041881222109, 'MCHP':  
 0.004348323606820003, 'SMCI': 0.004233894038219476, 'TEL': 0.004233894038219476,  
 'PLTR': 0.00411946446961895, 'FTNT': 0.004005034901018423, 'DDOG':  
 0.003661746195216845, 'IT': 0.0034328870580157917, 'CTSH':  
 0.0032040279208147395, 'HUBS': 0.0032040279208147395, 'CDW':  
 0.003089598352214213, 'TEAM': 0.003089598352214213}  
 IGV {'MSFT': 0.09817400644468316, 'CRM': 0.09258861439312568, 'ORCL':  
 0.08743286788399574, 'ADBE': 0.08109559613319013, 'INTU': 0.0787325456498389,  
 'NOW': 0.05327604726100968, 'PANW': 0.041031149301826, 'SNPS':  
 0.039634801288936636, 'CDNS': 0.038882921589688514, 'CRWD':  
 0.032867883995703555, 'ROP': 0.026745435016111718, 'WDAY': 0.025671321160042972,  
 'ADSK': 0.02363050483351236, 'PLTR': 0.020408163265306124, 'FTNT':  
 0.01976369495166488, 'DDOG': 0.017937701396348017, 'HUBS': 0.015574650912996781,  
 'TEAM': 0.015145005370569283, 'EA': 0.014500537056928038, 'FICO':  
 0.013641245972073043, 'ANSS': 0.013533834586466169, 'TTWO': 0.01084854994629431,  
 'MSTR': 0.010311493018259937, 'PTC': 0.010096670247046188, 'TYL':  
 0.008163265306122451, 'ZS': 0.007518796992481204, 'ZM': 0.00741138560687433,  
 'NTNX': 0.007196562835660582, 'MANH': 0.006874328678839959, 'APP':  
 0.006444683136412461, 'DOCU': 0.005585392051557466, 'GEN': 0.005477980665950592,  
 'SNAP': 0.005263157894736843, 'BSY': 0.005155746509129968, 'DT':  
 0.005155746509129968, 'OTEX': 0.004511278195488723, 'GWRE':  
 0.004296455424274974, 'PATH': 0.003974221267454351, 'ESTC':  
 0.003759398496240602, 'DSGX': 0.0035445757250268536, 'PCOR':  
 0.0030075187969924823, 'CFLT': 0.0029001074113856077, 'SPSC':  
 0.0029001074113856077, 'QLYS': 0.0029001074113856077, 'U': 0.002792696025778733,  
 'AZPN': 0.002792696025778733, 'BILL': 0.002792696025778733, 'DBX':  
 0.002792696025778733, 'TENB': 0.0026852846401718587, 'IOT':  
 0.002577873254564984}  
 IHI {'ABT': 0.16780204367862148, 'ISRG': 0.1201162091765177, 'SYK':  
 0.10248447204968943, 'MDT': 0.048687637747946294, 'EW': 0.047285113203766764,  
 'DXCM': 0.04718493287918252, 'BSX': 0.04678421158084551, 'BDX':  
 0.04618312963334, 'GEHC': 0.04488078541374473, 'IDXX': 0.041374474053295925,  
 'RMD': 0.034562211981566816, 'ZBH': 0.03285914646363453, 'BAX':  
 0.02594670406732117, 'STE': 0.025545982768984163, 'HOLX': 0.022941294329793624,  
 'PODD': 0.015427769985974752, 'SWAV': 0.0153275896613905, 'TFX':  
 0.012722901222199958, 'PEN': 0.010619114405930673, 'INSP': 0.008715688238829893,  
 'MASI': 0.007713884992987376, 'GMED': 0.007513524343818872, 'GKOS':

0.006110999799639349, 'ITGR': 0.00490883590462833, 'IRTC': 0.004407934281707071,  
 'AXNX': 0.00430775395712282, 'NVST': 0.0042075736325385684, 'TMDX':  
 0.003806852334201562, 'ENOV': 0.0037066720096173103, 'LIVN':  
 0.003606491685033059, 'CNMD': 0.0029052294129432972, 'PRCT':  
 0.0028050490883590458, 'IART': 0.0028050490883590458, 'TNDM':  
 0.0028050490883590458, 'NARI': 0.0026046884391905424, 'QDEL':  
 0.0026046884391905424, 'NVCR': 0.001703065517932278, 'ATEC':  
 0.001602885193348026, 'LMAT': 0.001602885193348026, 'OMCL':  
 0.001602885193348026, 'ATRC': 0.0014025245441795229, 'USD':  
 0.0014025245441795229, 'XTSLA': 0.0011019835704267678, 'AORT':  
 0.0010018032458425164, 'SILK': 0.0009016229212582647, 'VREX':  
 0.0009016229212582647, 'SIBN': 0.0007012622720897614, 'TMCI':  
 0.0006010819475055098, 'OFIX': 0.0006010819475055098, 'NVRD':  
 0.0006010819475055098}  
 IJH {'VST': 0.03571428571428572, 'RS': 0.028571428571428574, 'WSM':  
 0.02817460317460318, 'CSL': 0.02777777777777778, 'GDDY': 0.026587301587301593,  
 'EME': 0.0253968253968254, 'PSTG': 0.02420634920634921, 'SAIA':  
 0.023412698412698416, 'GGG': 0.023015873015873017, 'LII': 0.023015873015873017,  
 'DC': 0.02222222222222227, 'MANH': 0.02222222222222227, 'XPO':  
 0.02222222222222227, 'RPM': 0.021428571428571432, 'LECO': 0.020634920634920638,  
 'XTSLA': 0.020634920634920638, 'OVV': 0.020634920634920638, 'NBIX':  
 0.020238095238095243, 'BLD': 0.020238095238095243, 'WSO': 0.019841269841269844,  
 'ACM': 0.019444444444444448, 'FNF': 0.01904761904761905, 'TOL':  
 0.01904761904761905, 'NVT': 0.018650793650793654, 'BURL': 0.018650793650793654,  
 'RGA': 0.018650793650793654, 'SWAV': 0.01825396825396826, 'WPC':  
 0.01825396825396826, 'FND': 0.01825396825396826, 'CELH': 0.01785714285714286,  
 'DKS': 0.01785714285714286, 'IBKR': 0.01785714285714286, 'CASY':  
 0.017460317460317464, 'EQH': 0.017460317460317464, 'GLPI': 0.017460317460317464,  
 'USFD': 0.017460317460317464, 'ELS': 0.017460317460317464, 'RNR':  
 0.017460317460317464, 'AMH': 0.017063492063492065, 'WMS': 0.017063492063492065,  
 'DT': 0.01666666666666667, 'FIX': 0.01666666666666667, 'UTHR':  
 0.01666666666666667, 'RRX': 0.01626984126984127, 'CLF': 0.01626984126984127,  
 'PFGC': 0.01626984126984127, 'WING': 0.01626984126984127, 'ITT':  
 0.01626984126984127, 'LSCC': 0.015873015873015876, 'SCI': 0.015873015873015876}  
 IJJ {'FNF': 0.03029394121175765, 'RGA': 0.02939412117576485, 'WPC':  
 0.02909418116376725, 'USFD': 0.02759448110377925, 'RRX': 0.026094781043791246,  
 'CLF': 0.026094781043791246, 'PFGC': 0.026094781043791246, 'BJ':  
 0.02489502099580084, 'THC': 0.024595080983803242, 'ALLY': 0.024595080983803242,  
 'CHK': 0.02369526094781044, 'DINO': 0.02279544091181764, 'X':  
 0.02249550089982004, 'NLY': 0.022195560887822437, 'UNM': 0.022195560887822437,  
 'SNX': 0.021295740851829635, 'JLL': 0.020695860827834433, 'GPK':  
 0.020695860827834433, 'AR': 0.020395920815836837, 'AFG': 0.020095980803839234,  
 'ARMK': 0.020095980803839234, 'KNX': 0.019796040791841635, 'DSK':  
 0.019196160767846433, 'WBS': 0.019196160767846433, 'FHN': 0.019196160767846433,  
 'XPO': 0.01859628074385123, 'NOV': 0.01859628074385123, 'ORI':  
 0.01859628074385123, 'LEA': 0.01859628074385123, 'SF': 0.01829634073185363,  
 'AGCO': 0.01799640071985603, 'LAD': 0.01769646070785843, 'WCC':  
 0.017096580683863227, 'JEF': 0.017096580683863227, 'DAR': 0.017096580683863227,

'COHR': 0.017096580683863227, 'FLR': 0.01679664067186563, 'ACM':  
 0.016496700659868028, 'ARW': 0.01619676064787043, 'XRAY': 0.01619676064787043,  
 'UGE': 0.01589682063587283, 'GLPI': 0.01589682063587283, 'BERY':  
 0.01589682063587283, 'PBF': 0.015596880623875228, 'RPM': 0.015596880623875228,  
 'CMC': 0.015596880623875228, 'PVH': 0.015296940611877627, 'AA':  
 0.015296940611877627, 'XTSLA': 0.014997000599880026, 'TMHC':  
 0.014697060587882425}  
 IJK {'VST': 0.03922018348623853, 'RS': 0.031422018348623855, 'WSM':  
 0.03096330275229358, 'CSL': 0.030275229357798167, 'GDDY': 0.029128440366972475,  
 'EME': 0.02775229357798165, 'PSTG': 0.02660550458715596, 'SAIA':  
 0.025688073394495414, 'GGG': 0.02522935779816514, 'LII': 0.02522935779816514,  
 'OC': 0.024541284403669726, 'MANH': 0.024541284403669726, 'LECO':  
 0.02293577981651376, 'OVV': 0.02270642201834862, 'NBIX': 0.022477064220183484,  
 'BLD': 0.02201834862385321, 'WSO': 0.02178899082568807, 'TOL':  
 0.02110091743119266, 'NVT': 0.020642201834862386, 'SWAV': 0.02018348623853211,  
 'FND': 0.02018348623853211, 'CELH': 0.019724770642201832, 'CASY':  
 0.019266055045871557, 'WMS': 0.018807339449541282, 'DT': 0.01834862385321101,  
 'FIX': 0.01834862385321101, 'WING': 0.017889908256880735, 'ITT':  
 0.017660550458715597, 'LSCC': 0.017201834862385322, 'TTEK':  
 0.017201834862385322, 'WEX': 0.016972477064220184, 'TRES': 0.016743119266055043,  
 'KNSL': 0.016513761467889906, 'TXRH': 0.016513761467889906, 'CLH':  
 0.016513761467889906, 'MEDP': 0.015366972477064221, 'ELF': 0.015137614678899083,  
 'ONTO': 0.015137614678899083, 'RGEN': 0.014908256880733946, 'WWD':  
 0.014908256880733946, 'EXP': 0.014678899082568806, 'FIVE': 0.014449541284403669,  
 'RRC': 0.014449541284403669, 'BWXT': 0.014449541284403669, 'TPX':  
 0.014449541284403669, 'WFRD': 0.014220183486238531, 'PEN': 0.013990825688073394,  
 'LNW': 0.013990825688073394, 'CHDN': 0.013761467889908256, 'SWN':  
 0.013761467889908256}  
 IJR {'XTSLA': 0.08790252393385552, 'ENSG': 0.025674499564838985, 'ATI':  
 0.02523933855526544, 'FN': 0.024369016536118362, 'SPSC': 0.02393385552654482,  
 'BCC': 0.023063533507397736, 'AAON': 0.023063533507397736, 'SM':  
 0.022628372497824192, 'MLI': 0.022628372497824192, 'MTH': 0.02219321148825065,  
 'IBP': 0.021758050478677106, 'ANF': 0.021758050478677106, 'SPXC':  
 0.021322889469103563, 'ALK': 0.02001740644038294, 'AWI': 0.02001740644038294,  
 'FSS': 0.019582245430809397, 'NSIT': 0.019582245430809397, 'AL':  
 0.019582245430809397, 'MGY': 0.019147084421235853, 'COOP': 0.01871192341166231,  
 'LNC': 0.01871192341166231, 'GKOS': 0.01827676240208877, 'BCPC':  
 0.01827676240208877, 'SEE': 0.017841601392515227, 'RDN': 0.017841601392515227,  
 'DV': 0.017406440382941687, 'BMI': 0.017406440382941687, 'MOG.A':  
 0.017406440382941687, 'JXN': 0.017406440382941687, 'ABG': 0.017406440382941687,  
 'OGN': 0.017406440382941687, 'ASO': 0.016971279373368144, 'AGO':  
 0.0165361183637946, 'AEO': 0.0165361183637946, 'SIG': 0.0165361183637946,  
 'MMSI': 0.016100957354221058, 'AAP': 0.016100957354221058, 'ITRI':  
 0.016100957354221058, 'FUL': 0.016100957354221058, 'HP': 0.016100957354221058,  
 'WIRE': 0.016100957354221058, 'AVAV': 0.015665796344647515, 'ALKS':  
 0.015665796344647515, 'VRRM': 0.015665796344647515, 'DY': 0.015665796344647515,  
 'PECO': 0.015665796344647515, 'FELE': 0.015230635335073973, 'VFC':  
 0.015230635335073973, 'EPRT': 0.015230635335073973, 'ACA': 0.015230635335073973}

IJS {'XTSLA': 0.04989532449406839, 'ALK': 0.03279832519190509, 'COOP':  
 0.030704815073272853, 'LNC': 0.03035589672016748, 'JXN': 0.028262386601535242,  
 'OGN': 0.027913468248429867, 'ASO': 0.027564549895324496, 'AAP':  
 0.026168876482903, 'DY': 0.025471039776692253, 'VFC': 0.025122121423586878,  
 'AL': 0.024773203070481507, 'MDC': 0.02372644801116539, 'DXC':  
 0.023377529658060014, 'FTRE': 0.02198185624563852, 'MAC': 0.02198185624563852,  
 'SLG': 0.0209351011863224, 'HI': 0.020586182833217025, 'SANM':  
 0.020586182833217025, 'BXMT': 0.020237264480111653, 'REZI': 0.01953942777390091,  
 'UCBI': 0.01849267271458479, 'SEM': 0.01849267271458479, 'ABCB':  
 0.01849267271458479, 'AUB': 0.018143754361479414, 'HASI': 0.017794836008374042,  
 'SEE': 0.017794836008374042, 'ABM': 0.017096999302163293, 'NWL':  
 0.017096999302163293, 'FHB': 0.01674808094905792, 'GNW': 0.01674808094905792,  
 'LXP': 0.01674808094905792, 'AVA': 0.01674808094905792, 'HIW':  
 0.016399162595952546, 'HUBG': 0.016050244242847175, 'RUN': 0.016050244242847175,  
 'PINC': 0.016050244242847175, 'KSS': 0.0157013258897418, 'FULT':  
 0.015352407536636426, 'MPW': 0.015003489183531053, 'OI': 0.015003489183531053,  
 'ABR': 0.01465457083042568, 'CBU': 0.014305652477320307, 'ABG':  
 0.014305652477320307, 'SFNC': 0.014305652477320307, 'MODG':  
 0.014305652477320307, 'SEDG': 0.014305652477320307, 'JBLU':  
 0.014305652477320307, 'MBC': 0.013956734124214934, 'DEI': 0.013956734124214934,  
 'SONO': 0.01360781577110956}  
 IJT {'ENSG': 0.030765185379963183, 'ATI': 0.03023928477517749, 'FN':  
 0.028661582960820407, 'SPSC': 0.02839863265842756, 'BCC': 0.027083881146463318,  
 'AON': 0.027083881146463318, 'MLI': 0.02682093084407047, 'SM':  
 0.02682093084407047, 'MTH': 0.02655798054167762, 'IBP': 0.02576912963449908,  
 'ANF': 0.02576912963449908, 'SPXC': 0.025243229029713384, 'XTSLA':  
 0.023928477517749146, 'AWI': 0.023665527215356297, 'FSS': 0.02340257691296345,  
 'MGY': 0.022613726005784904, 'GKOS': 0.021824875098606363, 'DV':  
 0.020510123586642125, 'BMI': 0.020510123586642125, 'MOG.A':  
 0.020510123586642125, 'AEO': 0.01972127267946358, 'SIG': 0.019458322377070732,  
 'AVAV': 0.018932421772285036, 'WIRE': 0.018932421772285036, 'VRRM':  
 0.018669471469892188, 'FELE': 0.018143570865106495, 'NOG': 0.017880620562713646,  
 'AMR': 0.0176176702603208, 'MATX': 0.0176176702603208, 'ITGR':  
 0.0176176702603208, 'CRS': 0.0176176702603208, 'GMS': 0.017354719957927953,  
 'SHAK': 0.01656586905074941, 'CRC': 0.01656586905074941, 'GPI':  
 0.01630291874835656, 'ARCB': 0.016039968445963712, 'FORM': 0.015777018143570864,  
 'OTTR': 0.015777018143570864, 'ACLS': 0.015514067841178016, 'LBRT':  
 0.015514067841178016, 'ALRM': 0.015514067841178016, 'APPLE':  
 0.015514067841178016, 'NSIT': 0.01498816723639232, 'MHO': 0.01498816723639232,  
 'HCC': 0.01498816723639232, 'WDFC': 0.014725216933999474, 'RDNT':  
 0.014462266631606628, 'MSGs': 0.013936366026820931, 'BOOT':  
 0.013673415724428083, 'CVC0': 0.013410465422035235}  
 ILCG {'MSFT': 0.18093042180930421, 'AAPL': 0.1482435914824359, 'NVDA':  
 0.1211175912111759, 'AMZN': 0.1006374610063746, 'META': 0.0387901803879018,  
 'LLY': 0.036620100366201, 'GOOGL': 0.0330937203309372, 'GOOG':  
 0.0299742302997423, 'TSLA': 0.0273972602739726, 'V': 0.025227180252271802, 'MA':  
 0.0222433202224332, 'CRM': 0.0158687101586871, 'NFLX': 0.0155974501559745,  
 'AVGO': 0.012477960124779601, 'ADBE': 0.012342330123423301, 'MRK':

0.010307880103078801, 'COST': 0.0096297300962973, 'INTU': 0.009494100094941,  
 'UNH': 0.009494100094941, 'NOW': 0.0086803200868032, 'ISRG':  
 0.007324020073240201, 'AMD': 0.0066458700664587, 'GE': 0.0063746100637461,  
 'UBER': 0.006238980062389801, 'VRTX': 0.0058320900583209, 'PANW':  
 0.0050183100501831005, 'PGR': 0.0048826800488268, 'CDNS': 0.0047470500474705,  
 'SNPS': 0.0047470500474705, 'DIS': 0.0047470500474705, 'CMG':  
 0.0042045300420453, 'MCD': 0.0042045300420453, 'EQIX': 0.0042045300420453,  
 'BKNG': 0.004068900040689, 'NKE': 0.004068900040689, 'MELI': 0.004068900040689,  
 'CRWD': 0.004068900040689, 'ANET': 0.0039332700393327, 'TT': 0.0039332700393327,  
 'TMO': 0.0037976400379764004, 'ORCL': 0.0037976400379764004, 'LIN':  
 0.0037976400379764004, 'ABNB': 0.0037976400379764004, 'TDG':  
 0.0036620100366201004, 'CEG': 0.0033907500339075, 'MRVL': 0.0033907500339075,  
 'SPGI': 0.0033907500339075, 'SBUX': 0.0032551200325512, 'WDAY':  
 0.0031194900311949003, 'EW': 0.0031194900311949003}  
 IMCG {'CRWD': 0.034371108343711085, 'TT': 0.03312577833125779, 'TDG':  
 0.03163138231631382, 'CEG': 0.028891656288916562, 'MRVL': 0.028642590286425903,  
 'WDAY': 0.026899128268991285, 'EW': 0.026650062266500626, 'DXCM':  
 0.025404732254047324, 'ADSK': 0.024906600249066005, 'HLT': 0.023910336239103363,  
 'CPRT': 0.022665006226650065, 'SMCI': 0.021668742216687423, 'GWW':  
 0.021419676214196763, 'PSA': 0.021170610211706103, 'SQ': 0.02092154420921544,  
 'ROST': 0.02092154420921544, 'COIN': 0.02067247820672478, 'PLTR':  
 0.02067247820672478, 'ODFL': 0.02067247820672478, 'MSCI': 0.02042341220423412,  
 'AME': 0.02042341220423412, 'IDXX': 0.020174346201743465, 'FAST':  
 0.019676214196762142, 'PAYX': 0.019427148194271483, 'A': 0.019427148194271483,  
 'YUM': 0.018929016189290163, 'TTD': 0.018929016189290163, 'DASH':  
 0.018679950186799504, 'SYY': 0.01843088418430884, 'MLM': 0.01818181818181818,  
 'HAL': 0.017434620174346202, 'IT': 0.017185554171855542, 'CSGP':  
 0.017185554171855542, 'IR': 0.016936488169364883, 'DDOG': 0.016936488169364883,  
 'VMC': 0.016438356164383564, 'ROK': 0.01594022415940224, 'CDW':  
 0.01594022415940224, 'VRSK': 0.01594022415940224, 'EL': 0.01569115815691158,  
 'HUBS': 0.01569115815691158, 'XYL': 0.015193026151930262, 'WELL':  
 0.014943960149439602, 'EFX': 0.014943960149439602, 'VEEV': 0.014694894146948941,  
 'MPWR': 0.014445828144458281, 'TEAM': 0.014445828144458281, 'ANSS':  
 0.01419676214196762, 'FICO': 0.01419676214196762, 'IQV': 0.013698630136986302}  
 IMTM {'NOVO B.CO': 0.08749789668517584, '7203.T': 0.08110381961972069, '8306.T':  
 0.04980649503617701, 'SAP.DE': 0.03600874978966852, '8058.T':  
 0.03499915867407034, '8035.T': 0.033148241628807, '8316.T': 0.03197038532727579,  
 'HSBA.L': 0.028436816422682146, 'TTE.PA': 0.027258960121150935, '6501.T':  
 0.026417634191485784, 'NOVN.SW': 0.02574457344775366, 'UBSG.SW':  
 0.022547534915026084, '8031.T': 0.0215379437994279, 'BHP.AX':  
 0.02103314824162881, '4063.T': 0.02103314824162881, '8411.T':  
 0.01951876156823153, 'UCG.MI': 0.01783610970890123, 'RR.L': 0.0176678445229682,  
 '6758.T': 0.01749957933703517, 'AI.PA': 0.016489988221436984, '7267.T':  
 0.016321723035503954, '8001.T': 0.015985192663637893, '8766.T':  
 0.015312131919905773, 'MUV2.DE': 0.01514386673397274, 'REL.L':  
 0.01480733636210668, '6146.T': 0.01480733636210668, 'CRH.L':  
 0.014470805990240618, 'OR.PA': 0.014134275618374558, 'SAF.PA':  
 0.013966010432441528, 'AIR.PA': 0.013461214874642437, 'RACE.MI':

0.013461214874642437, 'SAN.MC': 0.013461214874642437, 'BBVA.MC':  
 0.013124684502776375, 'SU.PA': 0.012619888944977285, 'CSU':  
 0.012115093387178193, '2914.T': 0.011946828201245163, 'STLAM.MI':  
 0.01177856301531213, 'RMS.PA': 0.01110550227158001, 'ITX.MC':  
 0.01093723708564698, '6857.T': 0.01076897189971395, 'BA.L': 0.01076897189971395,  
 '7011.T': 0.010432441527847888, 'III.L': 0.009927645970048797, '9434.T':  
 0.009422850412249707, 'ISP.MI': 0.009086320040383645, '8053.T':  
 0.008918054854450614, 'ENEL.MI': 0.008749789668517584, 'ABBN.SW':  
 0.008581524482584554, 'ATD': 0.008413259296651522, 'FFH': 0.008413259296651522}  
 INDA {'RELIANCE.NS': 0.11051645705111052, 'ICICIBANK.NS': 0.07077869949157078,  
 'INFY.NS': 0.06101150655606101, 'HDFCBANK.NS': 0.052849879582552856, 'TCS.NS':  
 0.04482204977254483, 'XTSLA': 0.035590045491035595, 'BHARTIARTL.NS':  
 0.034118276692534116, 'LT.NS': 0.030639550441530643, 'AXISBANK.NS':  
 0.029301578806529303, 'BAJFINANCE.NS': 0.02488627241102489, 'KOTAKBANK.NS':  
 0.024618678084024622, 'M&M.NS': 0.02394969226652395, 'HINDUNILVR.NS':  
 0.022745517795022745, 'MARUTI.NS': 0.02140754616002141, 'TATAMOTORS.NS':  
 0.020872357506020876, 'NTPC.NS': 0.019534385871019536, 'SUNPHARMA.NS':  
 0.018330211399518334, 'HCLTECH.NS': 0.017795022745517797, 'SBIN.NS':  
 0.016992239764516994, 'ITC.NS': 0.01592186245651592, 'TITAN.NS':  
 0.01592186245651592, 'POWERGRID.NS': 0.01578806529301579, 'TATASTEEL.NS':  
 0.014985282312014988, 'ZOMATO.NS': 0.014450093658014453, 'ULTRACEMCO.NS':  
 0.013781107840513783, 'ASIANPAINT.NS': 0.013513513513513514, 'JIOFIN.NS':  
 0.013112122023013113, 'NESTLEIND.NS': 0.010569975916510571, 'BEL.NS':  
 0.010569975916510571, 'ONGC.NS': 0.010302381589510303, 'HINDALCO.NS':  
 0.010034787262510036, 'DMART.NS': 0.009633395772009634, 'TRENT.NS':  
 0.0090982071180091, 'CIPLA.NS': 0.0090982071180091, 'HAL.NS':  
 0.008964409954508966, 'DRREDDY.NS': 0.008830612791008831, 'ADANIPILOTS.NS':  
 0.008830612791008831, 'COALINDIA.NS': 0.008696815627508698, 'SHRIRAMFIN.NS':  
 0.008696815627508698, 'MAXHEALTH.NS': 0.00842922130050843, 'DLF.NS':  
 0.008295424137008296, 'SBILIFE.NS': 0.008295424137008296, 'TECHM.NS':  
 0.008295424137008296, 'TATACONSUM.NS': 0.008161626973508161, 'BAJAJFINSV.NS':  
 0.008027829810008028, 'APOLLOHOSP.NS': 0.008027829810008028, 'VBL.NS':  
 0.00776023548300776, 'TATAPOWER.NS': 0.00776023548300776, 'INDIGO.NS':  
 0.00776023548300776, 'WIPRO.NS': 0.007626438319507626}  
 IIO {'MSFT': 0.1430531732418525, 'AAPL': 0.11686678101772442, 'NVDA':  
 0.09937106918238993, 'AMZN': 0.07764436821040595, 'GOOGL': 0.04242424242424242,  
 'GOOG': 0.03579188107489994, 'LLY': 0.027329902801600914, 'AVGO':  
 0.02698684962835906, 'JPM': 0.024128073184676958, 'XOM': 0.021841052029731273,  
 'ASML.AS': 0.01761006289308176, 'MA': 0.017495711835334476, 'PG':  
 0.016695254431103486, 'JNJ': 0.01623785020011435, 'MRK': 0.01452258433390509,  
 '005930.KS': 0.01429388221841052, '7203.T': 0.013950829045168667, 'CVX':  
 0.012578616352201259, 'NESN.SW': 0.012464265294453974, 'WMT':  
 0.011778158947970269, '700.HK': 0.011092052601486563, 'SHEL.L':  
 0.010748999428244711, 'PEP': 0.010520297312750143, 'KO': 0.010291595197255575,  
 'TMO': 0.009948542024013721, 'MC.PA': 0.009834190966266438, 'AZN.L':  
 0.009719839908519153, 'ACN': 0.009033733562035448, 'CSCO': 0.009033733562035448,  
 'NOVN.SW': 0.008919382504288165, 'MCD': 0.00880503144654088, 'ABT':  
 0.008576329331046312, 'CAT': 0.008461978273299028, 'ROG.SW':

0.007890222984562606, 'GE': 0.007661520869068039, 'IBM': 0.007661520869068039,  
 'TTE.PA': 0.007547169811320755, 'HSBA.L': 0.0070897655803316174, 'TXN':  
 0.00686106346483705, 'INTC': 0.00686106346483705, 'BHP.AX': 0.00686106346483705,  
 'PFE': 0.006632361349342481, 'SIE.DE': 0.006289308176100629, 'PM':  
 0.006289308176100629, 'RTX': 0.006060606060606061, 'HON': 0.005831903945111492,  
 'GS': 0.005831903945111492, '8306.T': 0.005717552887364208, 'SU.PA':  
 0.005488850771869639, 'ULVR.L': 0.0053744997141223555}  
 IPAC {'7203.T': 0.0852233676975945, 'BHP.AX': 0.04879725085910653, 'CBA.AX':  
 0.041237113402061855, '8035.T': 0.039862542955326465, '8306.T':  
 0.03665521191294387, '6758.T': 0.03505154639175258, '6501.T':  
 0.0288659793814433, 'CSL.AX': 0.0288659793814433, '6861.T':  
 0.027033218785796106, '8058.T': 0.026575028636884306, '4063.T':  
 0.024971363115693014, '8316.T': 0.024284077892325315, '1299.HK':  
 0.02290950744558992, 'NAB.AX': 0.02245131729667812, '6098.T':  
 0.02084765177548683, '8031.T': 0.020618556701030927, 'WBC.AX':  
 0.019243986254295534, '9984.T': 0.01855670103092784, '7267.T':  
 0.01855670103092784, '8766.T': 0.01855670103092784, 'ANZ.AX':  
 0.018327605956471937, '4568.T': 0.018327605956471937, '8001.T':  
 0.01718213058419244, '7974.T': 0.01718213058419244, 'WES.AX':  
 0.016036655211912942, '9983.T': 0.015807560137457044, '8411.T':  
 0.015807560137457044, 'D05.SI': 0.015578465063001147, 'JPY':  
 0.015578465063001147, 'MQG.AX': 0.014662084765177549, '4502.T':  
 0.013974799541809852, '9433.T': 0.013745704467353952, '7741.T':  
 0.012829324169530356, 'WDS.AX': 0.012142038946162658, '6902.T':  
 0.01191294387170676, 'GMG.AX': 0.01168384879725086, '9434.T':  
 0.01145475372279496, '6367.T': 0.01145475372279496, '039.SI':  
 0.01122565864833906, '9432.T': 0.01122565864833906, '4661.T':  
 0.01099656357388316, '6146.T': 0.01099656357388316, '388.HK':  
 0.010767468499427262, '2914.T': 0.010767468499427262, '6503.T':  
 0.010538373424971364, '6273.T': 0.010538373424971364, '6981.T':  
 0.010538373424971364, 'RIO.AX': 0.010080183276059565, '6857.T':  
 0.009851088201603665, '3382.T': 0.009621993127147767}  
 IQLT {'ASML.AS': 0.09960291197882197, 'NOVO B.CO': 0.06485771012574454, 'MC.PA':  
 0.050628722700198546, 'NESN.SW': 0.04731965585704831, 'ALV.DE':  
 0.03408338848444739, 'AZN.L': 0.033421575115817344, 'ROG.SW':  
 0.03011250827266711, '8035.T': 0.02928524156187955, 'BHP.AX':  
 0.028457974851091992, 'ZURN.SW': 0.023494374586366645, 'NOVN.SW':  
 0.02316346790205162, 'ULVR.L': 0.02167438782263402, 'SU.PA':  
 0.021178027796161483, 'RMS.PA': 0.02084712111184646, 'WDS.AX':  
 0.019688947716743878, 'IBE.MC': 0.01886168100595632, 'OR.PA':  
 0.018696227663798807, 'ABBN.SW': 0.018365320979483787, 'CP':  
 0.017868960953011253, 'MUV2.DE': 0.017372600926538716, 'REL.L':  
 0.016876240900066182, 'CNR': 0.01588352084712111, '8766.T':  
 0.015221707478491067, '7974.T': 0.014394440767703508, 'PGHN.SW':  
 0.01373262739907346, 'ITX.MC': 0.013567174056915949, 'RACE.MI':  
 0.013567174056915949, '388.HK': 0.012905360688285905, 'DB1.DE':  
 0.012574454003970881, 'CFR.SW': 0.012574454003970881, 'EQNR.OL':  
 0.01240900066181337, 'CVE': 0.01240900066181337, 'AI.PA': 0.012243547319655858,

'ATCO A.ST': 0.012243547319655858, 'RIO.L': 0.012243547319655858, 'LSEG.L':  
 0.012078093977498346, 'ADYEN.AS': 0.011747187293183322, '4063.T':  
 0.011747187293183322, 'MFC': 0.011416280608868299, 'DO5.SI':  
 0.010919920582395765, 'DGE.L': 0.010919920582395765, 'WES.AX':  
 0.010589013898080741, 'NDA.ST': 0.010589013898080741, 'GSK.L':  
 0.01042356055592323, '6098.T': 0.010258107213765718, 'TOU':  
 0.010092653871608206, 'ARX': 0.010092653871608206, '039.SI':  
 0.00926538716082065, 'WKL.AS': 0.009099933818663138, 'III.L':  
 0.008934480476505626}  
 ITA {'RTX': 0.1856628674265147, 'BA': 0.1359728054389122, 'LMT':  
 0.131373725254949, 'GD': 0.04789042191561687, 'TDG': 0.04749050189962007, 'TXT':  
 0.04669066186762647, 'NOC': 0.044991001799640065, 'AXON': 0.04489102179564087,  
 'LHX': 0.04279144171165767, 'HWM': 0.042391521695660864, 'HEI.A':  
 0.02809438112377524, 'HII': 0.027694461107778442, 'CW': 0.024195160967806436,  
 'WWD': 0.022395520895820836, 'BWXT': 0.021895620875824834, 'HEI':  
 0.018196360727854428, 'HXL': 0.01339732053589282, 'MOG.A': 0.011397720455908816,  
 'AVAV': 0.010397920415916816, 'SPR': 0.010097980403919215, 'KTOS':  
 0.00669866026794641, 'AIR': 0.0050989802039592075, 'MRCY': 0.003799240151969606,  
 'DRS': 0.0036992601479704057, 'KAMN': 0.0032993401319736052, 'TGI':  
 0.002599480103979204, 'RKLB': 0.002499500099980004, 'RGR': 0.002099580083983203,  
 'SWBI': 0.001899620075984803, 'DCO': 0.001899620075984803, 'ACHR':  
 0.001899620075984803, 'CDRE': 0.0014997000599880023, 'XTSLA':  
 0.0014997000599880023, 'VVX': 0.001299740051989602, 'NPK':  
 0.0010997800439912016, 'SPCE': 0.0009998000399920016, 'USD':  
 9.998000399920016e-05, 'WFFUT': 9.998000399920016e-05, 'IXIM4': 0.0}  
 ITB {'DHI': 0.1434, 'LEN': 0.1251, 'NVR': 0.0791, 'PHM': 0.0745, 'LOW':  
 0.044000000000000004, 'SHW': 0.0433, 'BLD': 0.0418, 'HD': 0.0415, 'TOL': 0.0397,  
 'BLDR': 0.030899999999999997, 'MAS': 0.021400000000000002, 'LII': 0.02, 'OC':  
 0.0195, 'TMHC': 0.019299999999999998, 'MTH': 0.0184, 'IBP': 0.0179, 'FND':  
 0.0158, 'KBH': 0.0149, 'SKY': 0.013500000000000002, 'TREX': 0.0132, 'FBIN':  
 0.0129, 'MDC': 0.012, 'EXP': 0.0116, 'TPH': 0.011200000000000002, 'SSD': 0.0104,  
 'MHO': 0.0104, 'UFPI': 0.0095, 'CVCO': 0.0092, 'AZEK': 0.0091, 'BECN':  
 0.008100000000000001, 'MHK': 0.0079, 'CCS': 0.0075, 'LGIH': 0.0064, 'LEN.B':  
 0.0059, 'GRBK': 0.0045000000000000005, 'DOOR': 0.0038, 'LEG': 0.0031, 'MBC':  
 0.0029, 'DFH': 0.0028000000000000004, 'BZH': 0.0025, 'HAYW': 0.0023, 'JELD':  
 0.0022, 'AMWD': 0.002, 'NX': 0.0016, 'XTSLA': 0.0013, 'ETD': 0.001, 'ARHS':  
 0.0008, 'SGAFT': 0.0001, 'FAM4': 0.0, 'USD': -0.0002}  
 ITOT {'MSFT': 0.12627576545927557, 'AAPL': 0.10326195717430459, 'NVDA':  
 0.08765259155493296, 'AMZN': 0.0686411847108265, 'META': 0.04542725635381229,  
 'GOOGL': 0.037422453472083256, 'GOOG': 0.0316189713828297, 'BRK.B':  
 0.029617770662397437, 'LLY': 0.024014408645187113, 'AVGO': 0.023814288573143886,  
 'JPM': 0.02121272763658195, 'XOM': 0.01921152691614969, 'TSLA':  
 0.019011406844106463, 'V': 0.017610566339803884, 'UNH': 0.016409845907544525,  
 'MA': 0.015409245547328398, 'PG': 0.014808885331198719, 'JNJ':  
 0.01420852511506904, 'HD': 0.013808284970982588, 'COST': 0.013007804682809687,  
 'MRK': 0.01280768461076646, 'ABBV': 0.011606964178507104, 'CRM':  
 0.011406844106463877, 'CVX': 0.011206724034420653, 'NFLX': 0.010806483890334201,  
 'AMD': 0.010606363818290976, 'WMT': 0.010406243746247748, 'BAC':



0.010006003602161298, 'PEP': 0.009205523313988394, 'KO': 0.009205523313988394,  
 'TMO': 0.008805283169901942, 'LIN': 0.008605163097858715, 'ADBE':  
 0.008605163097858715, 'DIS': 0.00840504302581549, 'WFC': 0.008204922953772262,  
 'ACN': 0.008004802881729039, 'CSCO': 0.008004802881729039, 'MCD':  
 0.007804682809685812, 'ORCL': 0.007804682809685812, 'QCOM':  
 0.007804682809685812, 'ABT': 0.0076045627376425855, 'CAT': 0.007404442665599359,  
 'INTU': 0.007004202521512908, 'AMAT': 0.007004202521512908, 'GE':  
 0.006804082449469682, 'VZ': 0.006804082449469682, 'IBM': 0.006603962377426456,  
 'DHR': 0.00640384230538323, 'NOW': 0.00640384230538323, 'CMCSA':  
 0.0062037222333400045}  
 IUSG {'MSFT': 0.16144139456224793, 'AAPL': 0.13204110836477168, 'NVDA':  
 0.11213737478860412, 'AMZN': 0.08768049954468583, 'META': 0.0580200338233381,  
 'GOOGL': 0.047873032392350724, 'GOOG': 0.040457915962013785, 'LLY':  
 0.03083127357876935, 'AVGO': 0.03044100429296214, 'TSLA': 0.0244568752439183,  
 'V': 0.014830232860673863, 'CRM': 0.014700143098738128, 'MA':  
 0.014179784050995186, 'NFLX': 0.013919604527123715, 'AMD': 0.013529335241316508,  
 'ADBE': 0.01105762976453753, 'ORCL': 0.009886821907115909, 'INTU':  
 0.00897619357356576, 'AMAT': 0.008846103811630025, 'NOW': 0.00806556524001561,  
 'UBER': 0.007935475478079875, 'UNH': 0.007935475478079875, 'PG':  
 0.007285026668401197, 'COST': 0.007024847144529726, 'MRK':  
 0.0066345778587225184, 'HD': 0.006504488096786783, 'LRCX': 0.006504488096786783,  
 'BKNG': 0.006374398334851047, 'LIN': 0.005854039287108105, 'CAT':  
 0.005593859763236633, 'ACN': 0.0054637700013008975, 'COP':  
 0.0054637700013008975, 'ABBV': 0.0054637700013008975, 'QCOM':  
 0.00507350071549369, 'KLAC': 0.004683231429686483, 'ISRG': 0.004553141667750747,  
 'KO': 0.004553141667750747, 'PANW': 0.004553141667750747, 'AXP':  
 0.004553141667750747, 'MCD': 0.004423051905815012, 'SNPS': 0.004423051905815012,  
 'CDNS': 0.0042929621438792765, 'PEP': 0.0042929621438792765, 'TMO':  
 0.0042929621438792765, 'CMG': 0.004162872381943541, 'ETN': 0.004032782620007805,  
 'SYK': 0.0037726030961363335, 'GE': 0.0037726030961363335, 'TJX':  
 0.0036425133342005986, 'ANET': 0.003512423572264863}  
 IUSV {'BRK.B': 0.0810263335584065, 'JPM': 0.058293945532298004, 'XOM':  
 0.05266711681296422, 'JNJ': 0.03916272788656314, 'CVX': 0.03038487508440244,  
 'WMT': 0.028359216745442273, 'UNH': 0.02768399729912222, 'BAC':  
 0.027233851001575517, 'PG': 0.0245329732162953, 'HD': 0.023632680621201895,  
 'DIS': 0.02295746117488184, 'WFC': 0.02250731487733514, 'CSCO':  
 0.021832095431015084, 'MRK': 0.02115687598469503, 'ABT': 0.02093180283592168,  
 'COST': 0.020706729687148328, 'ABBV': 0.019806437092054922, 'VZ':  
 0.018455998199414812, 'IBM': 0.018455998199414812, 'DHR': 0.017330632455548056,  
 'CMCSA': 0.017105559306774706, 'INTC': 0.016655413009228, 'V':  
 0.01643033986045465, 'PEP': 0.0162052667116813, 'PFE': 0.0162052667116813,  
 'AMGN': 0.015755120414134596, 'KO': 0.015304974116587895, 'TMO':  
 0.014854827819041192, 'MU': 0.014854827819041192, 'LOW': 0.01462975467026784,  
 'RTX': 0.01462975467026784, 'NEE': 0.014179608372721137, 'HON':  
 0.014179608372721137, 'GS': 0.013954535223947784, 'ELV': 0.012829169480081027,  
 'T': 0.012829169480081027, 'C': 0.012604096331307678, 'PLD':  
 0.012153950033760975, 'MCD': 0.011928876884987623, 'MS': 0.011928876884987623,  
 'MA': 0.011928876884987623, 'BLK': 0.011703803736214272, 'MDT':

0.011703803736214272, 'UPS': 0.01147873058744092, 'SCHW': 0.01147873058744092,  
 'LIN': 0.01147873058744092, 'CI': 0.01125365743866757, 'CB':  
 0.011028584289894217, 'BMY': 0.010803511141120865, 'LMT': 0.010803511141120865}  
 IVE {'BRK.B': 0.0809554005495667, 'JPM': 0.05833861762840837, 'XOM':  
 0.05263157894736843, 'JNJ': 0.03910378355527373, 'CVX': 0.030437539632213066,  
 'WMT': 0.028323821602198273, 'UNH': 0.02768970619319383, 'BAC':  
 0.02726696258719087, 'PG': 0.024519129148171635, 'HD': 0.02367364193616572,  
 'DIS': 0.02303952652716128, 'WFC': 0.022405411118156842, 'CSCO':  
 0.021771295709152403, 'MRK': 0.021137180300147964, 'ABT': 0.020925808497146484,  
 'COST': 0.020714436694145, 'ABBV': 0.019868949482139082, 'VZ':  
 0.018389346861128728, 'IBM': 0.018389346861128728, 'DHR': 0.01733248784612133,  
 'CMCSA': 0.01712111604311985, 'INTC': 0.01669837243711689, 'V':  
 0.01627562883111393, 'PEP': 0.01627562883111393, 'PFE': 0.016064257028112452,  
 'AMGN': 0.015641513422109492, 'KO': 0.015218769816106533, 'MU':  
 0.015007398013105053, 'TMO': 0.015007398013105053, 'LOW': 0.014796026210103572,  
 'RTX': 0.014584654407102092, 'NEE': 0.014373282604100616, 'HON':  
 0.014161910801099136, 'GS': 0.013950538998097655, 'ELV': 0.012893679983090257,  
 'T': 0.012893679983090257, 'C': 0.012470936377087297, 'PLD':  
 0.012048192771084338, 'MCD': 0.012048192771084338, 'MS': 0.01183682096808286,  
 'MA': 0.01183682096808286, 'BLK': 0.01183682096808286, 'MDT':  
 0.01183682096808286, 'UPS': 0.01162544916508138, 'SCHW': 0.0114140773620799,  
 'LIN': 0.0114140773620799, 'CI': 0.011202705559078421, 'CB':  
 0.010991333756076941, 'BMY': 0.010779961953075462, 'LMT': 0.010779961953075462}  
 IVV {}  
 IVW {}  
 IWB {}  
 IWD {}  
 IWF {}  
 IWM {}  
 IWN {}  
 IWO {}  
 IWP {}  
 IWR {}  
 IWS {}  
 IWV {}  
 IWX {}  
 IWY {}  
 IXC {}  
 IXJ {}  
 IXN {}  
 IXUS {}  
 IYF {}  
 IYH {}  
 IYR {}  
 IYW {}  
 MCHI {}  
 MTUM {}  
 OEF {}

OMFL {}  
PBUS {}  
PHO {}  
PPA {}  
PRF {}  
PRFZ {}  
QQQ {}  
QQQM {}  
QUAL {}  
REET {}  
RPV {}  
RSP {}  
RSPT {}  
RWL {}  
SCZ {}  
SOXX {}  
SPGP {}  
SPHD {}  
SPHQ {}  
SPLV {}  
SUSA {}  
URTH {}  
USMV {}  
USRT {}  
VLUE {}  
XLG {}  
XMHQ {}  
XMMO {}  
XT {}

[ ]: 1359

## 7 Earning Call Transcripts

Todo: \* Connect to Mongo \* Load from Mongo so as not to repeat previously loaded information  
\* Web Scrape \* Save to Mongo

Error “429 Client Error: Too Many Requests” indicates that the server is rate-limiting your requests. This typically happens when you send too many requests to the server in a short period, and the server responds by temporarily blocking further requests from your IP address.

Possible solutions:

1. Reduce Request Frequency: Introduce a longer delay between each request to avoid hitting the rate limit.
2. Optimize Code: If possible, try to minimize the number of requests by fetching only what you need.
3. Use Proxies: Rotate IP addresses using proxies.

#### 4. Handle Rate Limiting

```
[ ]: !pip install pymongo
```

```
[ ]: import pymongo
from pymongo import MongoClient

username = 'alau5'
password = 'DMzUjEGwEt1IoIU0'

# Provide the connection details
hostname = f"mongodb+srv://jkim12:<password>@cluster0.v8lok8.mongodb.net"
port = 27017 # Default MongoDB port

# Create a MongoClient instance
client = MongoClient(hostname, port, username=username, password=password)
```

```
[ ]: import requests
from bs4 import BeautifulSoup
import pandas as pd
import time
from requests.exceptions import RequestException
```

```
[ ]: # Create a MongoClient instance
client = MongoClient(hostname, port, username=username, password=password)
db = client['Project_4'] # Replace with your actual database name
collection = db['Earnings_Call_Transcript_urls']
```

```
[ ]: tic2url = {}
# Adjust this delay according to your needs
delay_between_requests = 5 # in seconds

def upload_to_mongodb(tic, earnings_call_link):
    # Check if the document with the same ticker and URL already exists
    existing_document = collection.find_one({'ticker': tic,
    ↪ 'earnings_call_link': earnings_call_link})
    if existing_document:
        print(f"Document for {tic} and {earnings_call_link} already exists.
    ↪ Skipping...")
        return

    document = {'date': 20240417, 'ticker': tic, 'earnings_call_link':
    ↪ earnings_call_link}
    collection.insert_one(document)
    print(f"Document inserted for {tic} and {earnings_call_link}")

for tic in tickers:
```

```

if tic in tic2url:
    # If the URL for this ticker has already been found, skip it
    continue

url = f"https://www.google.com/search?q=yahoo.
↳com+ticker%3A{tic}+earnings+call+Q4+2023"

try:
    # Adding a User-Agent header to mimic a web browser
    response = requests.get(url, headers={'User-Agent': 'Mozilla/5.0'})
    response.raise_for_status() # Raise an exception for bad responses

    soup = BeautifulSoup(response.content, "html.parser")
    # Find all links on the page
    links = soup.find_all('a', href=True)
    # Filter links to find the one containing 'Q4 2023'
    relevant_links = [link['href'] for link in links if 'Q4 2023' in link.
↳text]

    if relevant_links:
        # If relevant links are found, take the first one
        earnings_call_link = relevant_links[0]
        # Extract the actual Yahoo Finance URL from the Google redirect URL
        if 'url?q=' in earnings_call_link:
            earnings_call_link = earnings_call_link.split('url?q=')[1].
↳split('&')[0]
            tic2url[tic] = earnings_call_link
            print(tic, earnings_call_link)
            upload_to_mongodb(tic, earnings_call_link) # Upload to MongoDB
        else:
            print(f"No relevant link found for {tic}")

    except RequestException as e:
        print(f'Error fetching URL for {tic}: {e}')
        if response.status_code == 429:
            # If rate limited, wait and try again
            time.sleep(60) # Wait for a minute before retrying
    except Exception as e:
        print(f'An error occurred: {e}')

    # Introduce delay between requests
    time.sleep(delay_between_requests)

# Create index for the collection
collection.create_index([("date", pymongo.ASCENDING), ("ticker", pymongo.
↳ASCENDING)], unique=False)

```

```
[ ]: url_collection = db['Earnings_Call_Transcript_urls']
transcript_collection = db['tic2call']

def generate_user_agent():
    ua = UserAgent()
    return ua.random

for document in url_collection.find():
    tic = document['ticker']
    url = document['earnings_call_link']

    try:
        response = requests.get(url, headers={'User-Agent':
generate_user_agent()})
        soup = BeautifulSoup(response.content, "html.parser")
        transcript_div = soup.find('div', class_='caas-body')

        if transcript_div:
            transcript_text = transcript_div.text
            transcript_document = {
                'ticker': tic,
                'transcript': transcript_text
            }
            transcript_collection.insert_one(transcript_document)
            print(f"{tic} Transcript Extracted: {transcript_text[:200]}...")
        else:
            print(f"No transcript found for {tic}")

    except Exception as e:
        print(f'Error fetching transcript for {tic}: {e}')

    time.sleep(1)
```

```
[ ]: transcript_collection = db['tic2call']

# Retrieve all documents from the tic2call collection
documents = list(transcript_collection.find())

# Convert documents to DataFrame
df2 = pd.DataFrame(documents)

# Extract 'Ticker' and 'Transcript' columns as lists
ticker_list = df2['ticker'].tolist()
transcript_list = df2['transcript'].tolist()
```

```
[ ]: import nltk
nltk.download('punkt')
```

```

nltk.download('stopwords')
nltk.download('wordnet')
nltk.download('vader_lexicon')
nltk.download('averaged_perceptron_tagger')

from nltk.tokenize import word_tokenize
from nltk.corpus import stopwords
from nltk.corpus import wordnet
from nltk.stem import WordNetLemmatizer
from nltk.sentiment.vader import SentimentIntensityAnalyzer
import string

```

```

[ ]: def get_wordnet_pos(treebank_tag):
    if treebank_tag.startswith('J'):
        return wordnet.ADJ
    elif treebank_tag.startswith('V'):
        return wordnet.VERB
    elif treebank_tag.startswith('N'):
        return wordnet.NOUN
    elif treebank_tag.startswith('R'):
        return wordnet.ADV
    else:
        return wordnet.NOUN # Default to noun

def preprocess(text):
    # Tokenization
    tokens = word_tokenize(text.lower())

    # Stop word filtering
    # stop_words=[]
    stop_words = set(stopwords.words('english'))
    filtered_tokens = [word for word in tokens if word.lower() not in stop_words
    ↪and word not in string.punctuation]

    # POS Tagging
    pos_tags = nltk.pos_tag(filtered_tokens)
    print(pos_tags[:12])

    # Lemmatization
    lemmatizer = WordNetLemmatizer()
    lemmatized_tokens = [lemmatizer.lemmatize(token, get_wordnet_pos(pos)) for
    ↪token, pos in pos_tags]
    return lemmatized_tokens

```

```

[ ]: import spacy
from nltk.corpus import stopwords
import string

```

```
spacy.prefer_gpu()
nlp = spacy.load("en_core_web_sm")
```

```
[ ]: def posFilter(doc):
    # Parse the document with SpaCy
    parsed_doc = nlp(doc)

    # Filter tokens based on POS tags
    # tokens = [token.text.lower() for token in parsed_doc if token.pos_ in
    ↪ ['NOUN', 'ADJ']]
    tokens = [token.text.lower() for token in parsed_doc if token.pos_ in
    ↪ ['NOUN', 'VERB', 'ADJ', 'ADV']]

    # Stop word filtering
    stop_words = set(stopwords.words('english'))
    filtered_tokens = [word for word in tokens if word not in stop_words and
    ↪ word not in string.punctuation]

    # Lemmatization using SpaCy
    lemmatized_tokens = [token.lemma_ for token in parsed_doc if token.text.
    ↪ lower() in filtered_tokens]
    return lemmatized_tokens
```

```
[ ]: # # create final_df used for ML methods
tokenized_documents = [preprocess(doc) for doc in transcript_list]
clean_documents = [' '.join(tokens) for tokens in tokenized_documents]
spacy_documents = [posFilter(doc) for doc in transcript_list]
clean_documents2 = [' '.join(tokens) for tokens in spacy_documents]
df_final = pd.DataFrame({'filing': transcript_list, 'cleanFiling':
    ↪ clean_documents, 'cleanFilingSpacy': clean_documents2}, index=ticker_list)
df_final.to_parquet('10K_NLP.parquet')
```

```
[ ]: collection_name = 'df_final_collection' # Replace with your desired collection
    ↪ name

# Create the DataFrame df_final
df_final = pd.DataFrame({'filing': transcript_list, 'cleanFiling':
    ↪ clean_documents, 'cleanFilingSpacy': clean_documents2}, index=ticker_list)

# Convert DataFrame to a list of dictionaries
documents = df_final.reset_index().to_dict('records')

# Insert documents into the MongoDB collection
collection = db[collection_name]
collection.insert_many(documents)
```



```
print(f"DataFrame saved to MongoDB collection: {collection_name}")
```