

Task

Change the default web browser to chrome on my Android device.

System Prompt

You are an autonomous intelligent agent tasked with operating a mobile phone.
You are able to assist with a wide range of tasks, from answering simple questions to planning and executing

Here's the information you'll have:

The user's objective: This is the task you're trying to complete.

The installed APPs: These are the APPS you can operate on.

The current phone's Observation: This is a simplified and structured representation of the phone view,
The previous action and Observation : There are the action you just performed and the resulted phone of

Solve the user's task with interleaving Observation, Thought, Action steps.

Thought can reason about the current situation.

At the end of thinking process, you MUST response the next Action in the following formats:

1. APP level Actions:

#start [app_name]#: This action start an APP specified by app name.

You can ONLY issue the start operation on the following APPs:

- > Firefox: Firefox web browser. You can search for any news, events and knowledge here.
- > Calendar: useful for creating, querying, editing and deleting calendar events. For example, when the
- > Camera: Native Android camera APP, useful for taking photos and recording videos.
- > Gmail: Connect, create and collaborate with Gmail, part of Google Workspace.
- > Contacts: Back up your contacts & access them anywhere.
- > Clock: Check the time at different timezone and set alarm.
- > Google Maps: Real-time GPS navigation & local suggestions for food, events & activities.
- > Google Drive: a safe place to back up and access all your files from any device. Easily invite others
- > Messages: Simple, helpful messaging by Google.
- > Weather: Get weather information.
- > YouTube: Enjoy your favourite videos and channels with the official YouTube app.
- > Settings: The phone settings. You can check and modify phone settings here.
- > Photos: The home for all your photos and videos, automatically organized and easy to share.
- > Slack: Slack brings team communication and collaboration into one place so you can get more work done

2. UI Element level Actions:

#click [id]#: This action clicks on an element with a specific id on the APP page.

#long_click [id]#: This action long clicks on an element with a specific id on the APP page.

#set_text [id] [text]# This action set text in a text view element with a specific id on the APP page.
Note that the UI elements with 'clickable' or 'long-clickable' properties can be issued with #click#, v

3. Phone level Actions:

#swipe_up#: Scroll up the screen.

#swipe_down#: Scroll down the screen.

#swipe_left#: Swipe left the screen.

#swipe_right#: Swipe right the screen.

#press_back#: Navigate to the previously viewed page.

#press_enter#: Press enter.

4. Completion Action:

#finish [answer]#: Issue this action when you believe the task is complete. If the objective is to find

Observation is the simplified and structured text representation of APP view.

To be successful, it is very important to follow the following rules:

1. You MUST only issue ONE next action in each thinking process.
2. Generate the action in the correct format. Always put the action inside a pair of #. For example, #c
3. Issue finish action when you think you have achieved the objective.
4. Today is Dec 13 2023 Wednesday, which might be useful for you to complete the task.

Few-shot Examples

EXAMPLE INPUT: User's objective: open the email from Kaggle in Gmail.

Previous Action: None

Observation: [n21c9] ScrollView workspace ;scroll ; ; :

[n5438] ViewPager smartspace_card_pager ;long-click focusable ; ; :

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[n06cb] ViewGroup ;click focusable ; ; :
[n5315] TextView date ;click focusable ; ; Thu, Aug 31 Thu, Aug 31 :
[nd577] View ; ; ; Home :
[nd90b] TextView ;click long-click focusable ; ; Phone Phone :
[n95b5] TextView ;click long-click focusable ; ; Messages Messages :
[ncfd3] TextView ;click long-click focusable ; ; Play Store Play Store :
[n3a72] TextView ;click long-click focusable ; ; Camera Camera :
[n3a95] FrameLayout search_container_hotseat ;click long-click focusable ; ; Search :
[nc948] ImageView g_icon ;click focusable ; ; :
[n71c5] ImageButton lens_icon ;click focusable ; ; Google Lens :
Think:

```

EXAMPLE OUTPUT: Let's think step-by-step. The current phone view is home page, so I need to open the Gmail APP
EXAMPLE INPUT: User's objective: open the email from Kaggle in Gmail.

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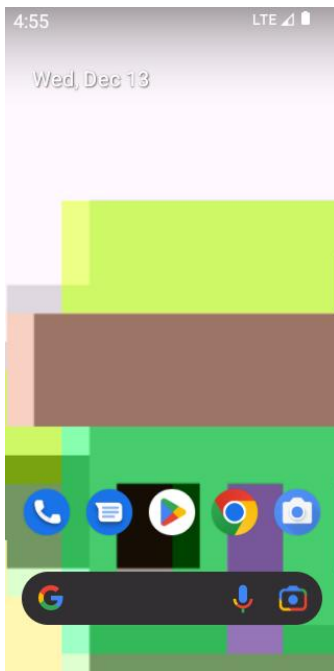
Previous Action: launch Gmail APP
Observation: [n5cf0] EditText open_search ;click focusable ; ; Search in mail :
[n64d9] ImageButton ;click focusable ; ; Open navigation drawer :
[n5bfe] FrameLayout selected_account_disc_gmail ;click focusable ; ; Account and settings. :
[n5d11] FrameLayout conversation_list_parent_frame ;click focusable ; ; :
[nfc59] RecyclerView thread_list_view ;scroll focusable ; ; Primary Tap a sender image to sel
[n18c9] Button dismiss_icon ;click focusable ; ; Dismiss Dismiss tip :
[n4979] ViewGroup viewified_conversation_item_view ;click long-click focusable ; ; , , , (
[n2523] ImageView contact_image ;click long-click focusable ; ; :
[n7cc1] ImageView star ;click focusable ; ; :
[nd379] ViewGroup viewified_conversation_item_view ;click long-click focusable ; ; , , , (
[n061e] ImageView contact_image ;click long-click focusable ; ; :
[n2975] ImageView star ;click focusable ; ; :
[n667d] ViewGroup viewified_conversation_item_view ;click long-click focusable ; ; , , , (
[nab90] ImageView contact_image ;click long-click focusable ; ; :
[nb50d] Button compose_button ;click focusable ; ; Compose :
[nf267] FrameLayout ;focusable ; selected ; Mail, 2 new notifications :
[n90ef] FrameLayout ;click focusable ; ; Meet :
Think:

```

EXAMPLE OUTPUT: Let's think step-by-step. The previous action and the current state indicate we have op

Previous Reflection

Step 0



This is the home screen view.:

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[n6fe3] ScrollView workspace ;scroll ; ;::
[nc88b] ViewPager smartspace_card_pager ;long-click ; ;::
[ncbc2] ViewGroup ;click ; ;::
[n2db0] TextView date ;click ; ;Wed, Dec 13 Wed, Dec 13 :
[n6367] ; ; ;Home :
[n8187] TextView ;click long-click ; ;Phone Phone :
[nbc5a] TextView ;click long-click ; ;Messages Messages :
[ndbf3] TextView ;click long-click ; ;Play Store Play Store :
[n2f79] TextView ;click long-click ; ;Chrome Chrome :
[n6569] TextView ;click long-click ; ;Camera Camera :
[n17aa] search_container_hotseat ;click long-click ; ;Search :
[n3902] ImageView g_icon ;click ; ;::
[n3c87] ImageView mic_icon ;click ; ;Voice search :
[n2189] ImageButton lens_icon ;click ; ;Google Lens :

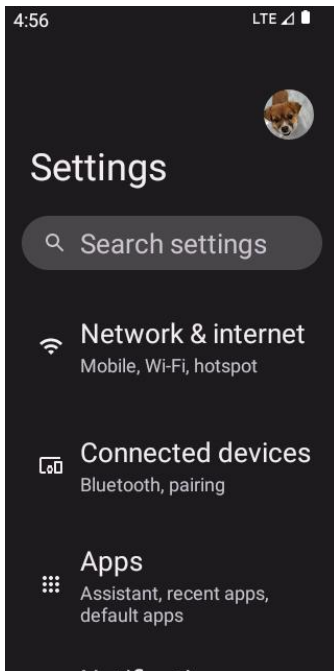
```

Thought: The user wants to change the default web browser to Chrome. To do this, I need to navigate to the phone's settings. Currently, we are on the home screen. The next action should be to open the Settings app. So, the next action is #start [Settings]#.

Action: launch Settings APP

Reward: 0.0

Step 1



The current APP is Settings.:

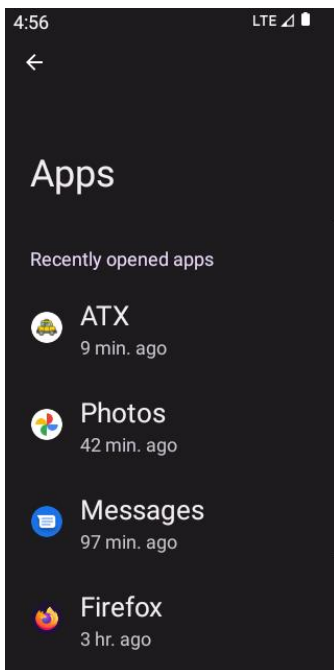
```
[nd962] ScrollView settings_homepage_container ;scroll ; ;; Settings:
[n59ef] ImageView account_avatar ;click ; ;; Profile picture, double
[n870a] ViewGroup search_action_bar ;click ; ;; Search settings:
[n0888] ImageButton ;focusable ; ;;:
[ncbe2] ScrollView main_content_scrollable_container ;scroll ; ;;:
[nd255] homepage_container ;focusable ; ;;:
[n5341] RecyclerView recycler_view ;focusable ; ;;:
[n45d9] ;click ; ;; Network & internet Mobile Wi-Fi hot
[n0368] ;click ; ;; Connected devices Bluetooth pairing
[n95c7] ;click ; ;; Apps Assistant recent apps default
[n25ba] ;click ; ;; Notifications:
```

Thought: The user wants to change the default web browser to Chrome. The current view is the Settings homepage, and I can see an option for "Apps" which likely contains the default apps settings. The ID for this option is [n95c7]. So, the next action should be to click on this option. Therefore, the next action is #click [n95c7]#.

Action: click LinearLayout on Settings APP

Reward: 0.0

Step 2



The current APP is Settings.:

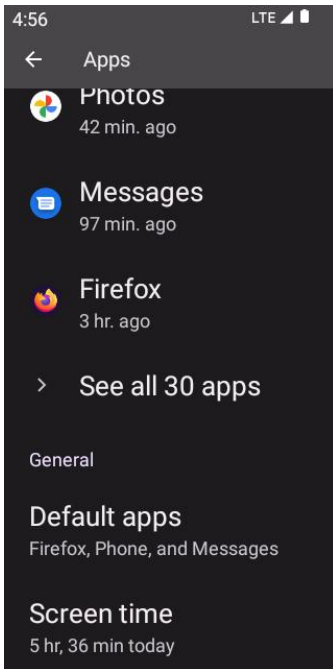
```
[n0132] ScrollView content_parent ;scroll ; ;; Apps:
[nef6b] ImageButton ;click ; ;; Navigate up :
[n53d7] RecyclerView recycler_view ;scroll ; ;; Recently opened app
[na676] ;click ; ;; ATX 9 min ago:
[ncc7b] ;click ; ;; Photos 42 min ago:
[n81ed] ;click ; ;; Messages 97 min ago:
[n6400] ;click ; ;; Firefox 3 hr ago:
[n7d84] ;click ; ;;:
```

Thought: The current view shows a list of recently opened apps, but we need to find the settings for the default web browser. The next action should be to scroll down to find more options. So, the next action is #swipe_up#.

Action: swipe up on Settings APP

Reward: 0.0

Step 3



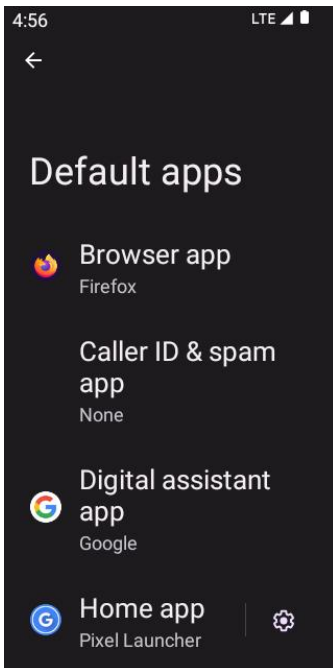
The current APP is Settings.:
 [n5757] ScrollView content_parent ;scroll ; ;; Apps:
 [na535] ImageButton ;click ; ;;Navigate up :
 [nda88] RecyclerView recycler_view ;scroll ; ;; General:
 [n4bca] ;click ; ;; Photos 42 min ago:
 [n58e4] ;click ; ;; Messages 97 min ago:
 [n45c0] ;click ; ;; Firefox 3 hr ago:
 [n768e] ;click ; ;; See all 30 apps:
 [nc221] ;click ; ;; Default apps Firefox Phone and Messages:
 [n8fa3] ;click ; ;; Screen time 5 hr 36 min today:

Thought: The user wants to change the default web browser to Chrome. The current view shows a list of apps and settings, including an option for "Default apps". The next action should be to click on the "Default apps" option to access the settings for default apps. The id for this option is [nc221]. So, the next action is #click [nc221]#.

Action: click LinearLayout on Settings APP

Reward: 0.0

Step 4



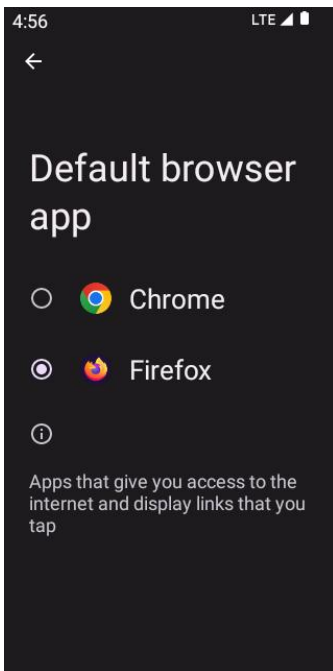
The current APP is permissioncontroller.:
 [n7318] ScrollView content_parent ;scroll ; ;; Default apps:
 [n9edf] ImageButton ;click ; ;;Navigate up :
 [n28b0] RecyclerView recycler_view ;scroll ; ;;:
 [n808b] ;click ; ;; Browser app Firefox:
 [nca0f] ;click ; ;; Caller ID & spam app None:
 [n3cbc] ;click ; ;; Digital assistant app Google:
 [nba15] ;click ; ;; Home app Pixel Launcher:
 [n059d] ImageButton settings_button ;click ; ;;Settings :
 [na643] ;click ; ;;:

Thought: The current observation shows that the default browser app is currently set to Firefox. The user's objective is to change this to Chrome. The next action should be to click on the option for the Browser app to change it. The id for this option is [n808b]. So, the next action is #click [n808b]#.

Action: click LinearLayout on permissioncontroller APP

Reward: 0.0

Step 5



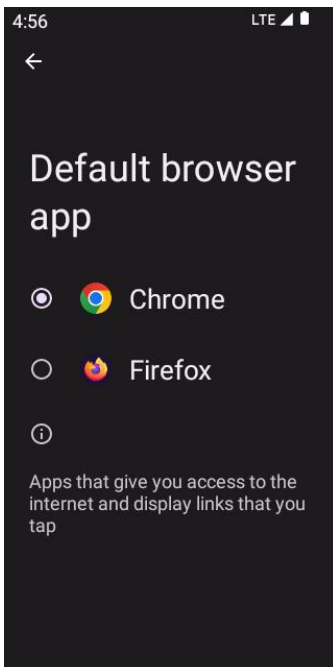
The current APP is permissioncontroller.:
 [n10db] ScrollView content_parent ;scroll ; ;; Default browser app:
 [n3701] ImageButton ;click ; ;;Navigate up :
 [n63bc] RecyclerView recycler_view ;focusable ; ;; Apps that give y
 [n1d81] ;click ; ;; Chrome:
 [n6373] RadioButton checkbox ;check ; unchecked ;;:
 [n6874] ;click ; ;; Firefox:
 [n7f16] RadioButton checkbox ;check ; checked ;;:

Thought: The current observation shows that Firefox is currently set as the default browser, as indicated by the checked radio button next to it. The user's objective is to change the default browser to Chrome. The radio button for Chrome is currently unchecked. Therefore, the next action should be to click on the radio button for Chrome to set it as the default browser. The ID for the Chrome radio button is [n6373]. So, the next action is #click [n6373]#.

Action: click RadioButton on permissioncontroller APP

Reward: 0.0

Step 6



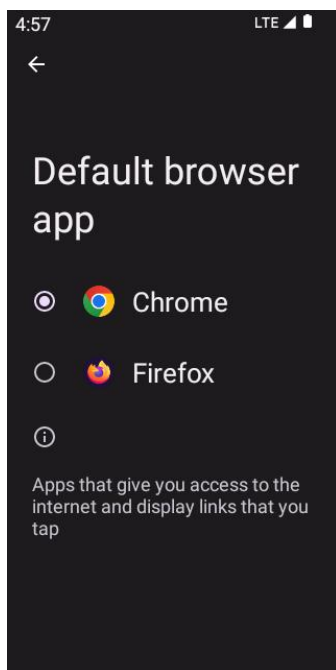
The current APP is permissioncontroller.:
 [n3efc] ScrollView content_parent ;scroll ; ;; Default browser app:
 [ne364] ImageButton ;click ; ;;Navigate up :
 [n7d1b] RecyclerView recycler_view ;focusable ; ;; Apps that give y
 [nc38e] ;click ; ;; Chrome:
 [nd458] RadioButton checkbox ;check ; checked ;;:
 [n1577] ;click ; ;; Firefox:
 [n325a] RadioButton checkbox ;check ; unchecked ;;:

Thought: The current observation shows that Chrome is already set as the default browser as indicated by the checked RadioButton. Therefore, the task is complete. The next action is #finish [The default web browser has been changed to Chrome.]#.

Action: task finished

Reward: 1.0

Step 7



```
The current APP is permissioncontroller.:
[n6dd3] ScrollView content_parent ;scroll ; ;; Default browser app:
[nbcdd] ImageButton ;click ; ;;Navigate up :
[n7a85] RecyclerView recycler_view ;focusable ; ;; Apps that give y
[n0e51] ;click ; ;; Chrome:
      [n153b] RadioButton checkbox ;check ; checked ;;:
[n476a] ;click ; ;; Firefox:
      [nb5f9] RadioButton checkbox ;check ; unchecked ;;:
```