

Task

Get directions from my current location to "Microsoft SVC Building".

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 ; ; :

[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

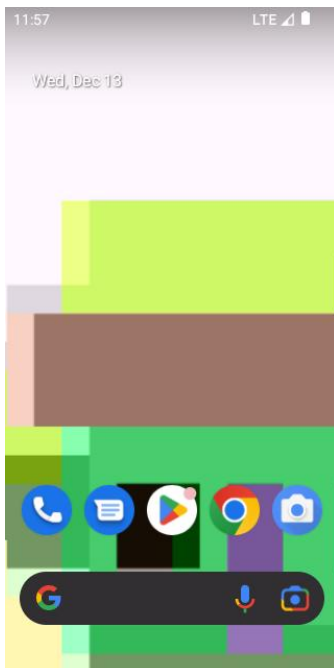
EXAMPLE INPUT: User's objective: open the email from Kaggle in Gmail.

```
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 ;; :
[n3d79] 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.:

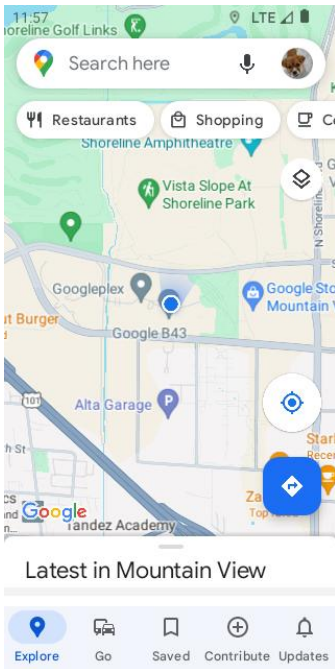
```
[n42ea] ;; ;; Home :
[n2746] TextView ;click long-click ;; Phone Phone :
[n9b9c] TextView ;click long-click ;; Messages Messages :
[n379a] TextView ;click long-click ;; Play Store Play Store has 21 not
[n4366] TextView ;click long-click ;; Chrome Chrome :
[ncdf3] TextView ;click long-click ;; Camera Camera :
[nee3e] search_container_hotseat ;click long-click ;; Search :
    [n5b8e] ImageView g_icon ;click ;; :
    [nc457] ImageView mic_icon ;click ;; Voice search :
    [ne429] ImageButton lens_icon ;click ;; Google Lens :
```

Thought: The user wants to get directions to "Microsoft SVC Building". The first step is to open the Google Maps app. The current observation shows that we are on the home screen, so we can directly start the Google Maps app. The next action is #start [Google Maps]#.

Action: launch Google Maps APP

Reward: 0.0

Step 1



The current APP is Google Maps.:

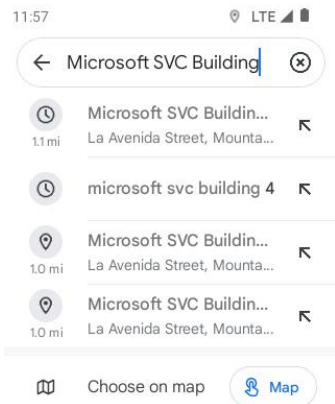
```
[n11ca] ;click ; ;;
[n479] search_omnibox_container ;focusable ; ;;:
[n4d18] EditText search_omnibox_text_box ;click ; ;;Search here :
[nbe5d] Button ;click ; ;;Voice search :
[n439b] selected_account_disc ;click ; ;;Account and settings. :
[n11fb] ScrollView explore_tab_home_bottom_sheet ;scroll ; ;;:
[n7733] RecyclerView scrollable_card_stream_container ;focusable ;
[na1e8] RecyclerView recycler_view ;scroll ; ;;:
[n6759] Button ;click ; ;;Restaurants Search for Restaurants :
[n2c54] Button ;click ; ;;Shopping Search for Shopping :
[nb093] Button ;click ; ;;Coffee Search for Coffee :
[n5d64] layers_fab ;click ; ;;Layers :
[n13a0] explore_tab_strip_button ;focusable ; selected ; selected, ;Exp
[n4265] transportation_tab_strip_button ;click ; ;;Go :
[nb946] saved_tab_strip_button ;click ; ;;Saved :
[n7e53] contribute_tab_strip_button ;click ; ;;Contribute :
[n1811] updates_tab_strip_button ;click ; ;;Updates :
[nec13] ImageButton on_map_directions_button ;click ; ;;Directions :
[n1b42] mylocation_button ;click ; ;;Enter compass mode :
```

Thought: The user wants to get directions to "Microsoft SVC Building". The current view is the Google Maps home page. The search box is available for input with the id [n4d18]. I will input the destination "Microsoft SVC Building" into the search box. So, the next action is #set_text [n4d18] [Microsoft SVC Building]#.

Action: type Microsoft SVC Building in Search here EditText of Google Maps APP

Reward: 0.0

Step 2



The current APP is Google Maps.:

```
[n24c7] RecyclerView typed_suggest_container ;focusable ; ;;:
[n4f73] ;click ; ;; 1 1 mi Microsoft SVC Building 4 La Avenida Stre
[na7b4] ;click ; ;;Activate to enter suggestion Microsoft SVC B
[n7a77] ;click ; ;; microsoft svc building 4:
[nb9ce] ;click ; ;;Activate to enter suggestion microsoft svc b
[n5b64] ;click ; ;; 1 0 mi Microsoft SVC Building 3 La Avenida Stre
[n2a4f] ;click ; ;;Activate to enter suggestion Microsoft SVC B
[n182e] ;click ; ;; 1 0 mi Microsoft SVC Building 5 La Avenida Stre
[n7335] ;click ; ;;Activate to enter suggestion Microsoft SVC B
[n657a] ;click ; ;; Choose on map:
[nc0e8] Button ;click ; ;;Map :
[n6d09] search_omnibox_container ;focusable ; ;;:
[ncd1a] Button search_omnibox_menu_button ;click ; ;;Navigate up :
[na932] EditText search_omnibox_text_box ;click ; ;;:
[n74d9] EditText search_omnibox_edit_text ;click long-click ; ;
[nb82d] Button search_omnibox_text_clear ;click ; ;; Clear:
```

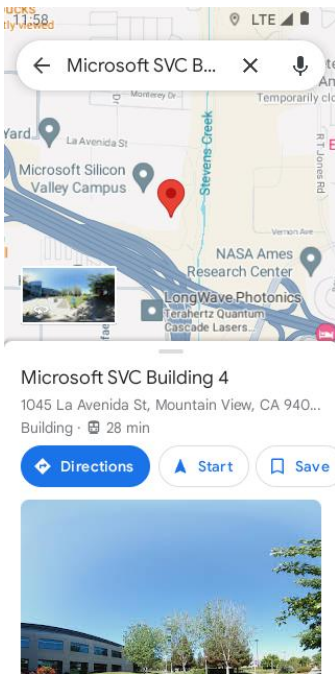


Thought: The search results for "Microsoft SVC Building" are displayed. The first result seems to be the correct one. I will select it by clicking on the corresponding element. The next action is #click [n4f73]#.

Action: click LinearLayout on Google Maps APP

Reward: 0.0

Step 3



The current APP is Google Maps.:

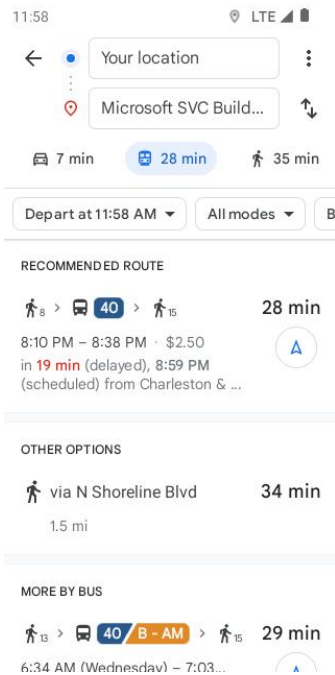
```
[n7e2f] ScrollView expandingscrollview_container ;scroll ; ;;:
[n5f26] ;click long-click ; ;; Microsoft SVC Building 4 Microsoft S
[n99ae] RecyclerView recycler_view ;scroll ; ;;:
[nc9b1] Button ;click long-click ; ;;Directions to Microsof
[n9800] CompoundButton ;click check ; unchecked ;;Start :
[n56e0] Button ;check ; unchecked ;;Start Start :
[n4bf5] CompoundButton ;click check ; unchecked ;;Save Micr
[n125f] Button ;check ; unchecked ;;Save Save Microsoft
[n5b7e] RecyclerView recycler_view ;focusable ; ;; Photo 1:
[n7444] ;click ; ;;:
[nf5ff] search_omnibox_container ;focusable ; ;;:
[n5d3f] Button search_omnibox_menu_button ;click ; ;;Back :
[n8704] EditText search_omnibox_text_box ;click ; ;;Microsoft SVC B
[n7740] Button search_omnibox_text_clear ;click ; ;; Clear:
[nc226] Button ;click ; ;;Voice search :
[n75b4] ImageView street_view_thumbnail ;click ; ;;View Street view ima
```

Thought: The current view is showing the details of "Microsoft SVC Building". The user's objective is to get directions from their current location to this building. There is a button with the text "Directions to Microsoft SVC Building 4, 1045 La Avenida St" which seems to be the right one to click to get the directions. The ID of this button is [nc9b1]. So, the next action should be #click [nc9b1].

Action: click Directions to Microsoft SVC Building Button on Google Maps APP

Reward: 0.0

Step 4



The current APP is Google Maps.:

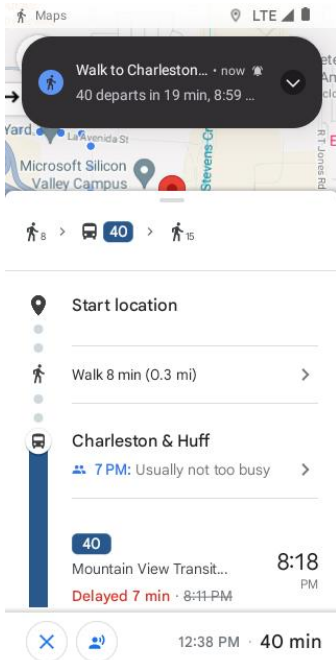
```
[n38c2] ScrollView expandingscrollview_container ;scroll ; ;;:
[n8e22] ViewPager ;scroll ; ;;transit directions :
[n7486] RecyclerView directions_trip_cardlist ;scroll ; selected ;
[n2dec] directions_trip_card ;click ; ;; Walk for 8 min then Bu
[n0728] ;click ; ;;:
[n32f8] Button start_button_directions_list ;click ; ;;
[n0d37] directions_trip_card ;click ; ;; via N Shoreline Blvd 3
[nbd70] directions_trip_card ;click ; ;; Walk for 13 min then B
[n4c69] ;click ; ;;:
[n22c7] Button start_button_directions_list ;click ; ;;
[n3bb1] ;click ; ;;:
[neb79] ;click ; ;;:
[n063f] ;click ; ;;Navigate up :
[n1ace] EditText directions_startpoint_textbox ;click ; ;; Your loc
[n8b8f] EditText directions_endpoint_textbox ;click ; ;; Microsoft
[n5edd] ImageView ;click ; ;;Overflow menu :
[n265d] ImageView ;click ; ;;Swap start and destination :
[n14f7] HorizontalScrollView ;scroll ; ;;:
[nb7c9] ;click ; ;;Driving mode: 7 min :
[n9d73] ;click ; selected ; selected, ;Transit mode: 28 min :
[n2e25] ;click ; ;;Walking mode: 35 min :
[n4378] HorizontalScrollView ;scroll ; ;;:
[n853b] Spinner ;click check ; unchecked ;;Depart at 11:58 AM :
[nf4e0] Button ;check ; unchecked ;;Depart at 11:58 AM Depa
[n846c] Spinner ;click check ; unchecked ;;All modes :
[n9540] Button ;check ; unchecked ;;All modes All modes :
[n812b] Spinner ;click check ; unchecked ;;Best route :
[na61e] Button ;check ; unchecked ;;Best route Best route :
```

Thought: The current observation shows that there are several routes available to reach the "Microsoft SVC Building" from the current location. The recommended route is to walk for 8 minutes, then take Bus 40, and finally walk for 15 minutes. The total estimated time is 28 minutes. The next action is to start the navigation. The ID of the start navigation button for the recommended route is [n32f8]. So, the next action is #click [n32f8].

Action: click Start navigation, route 1 Button on Google Maps APP

Reward: 0.0

Step 5



The current APP is Google Maps.:

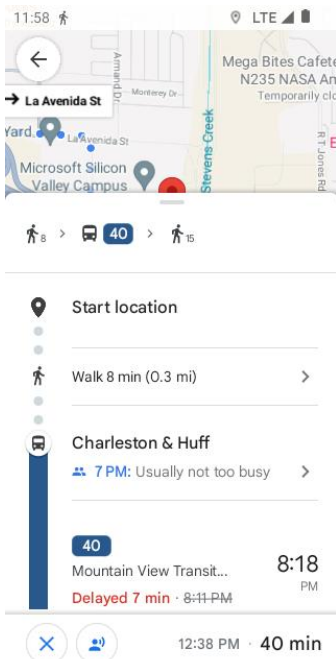
```
[na162] ScrollView expandingscrollView_container ;scroll ; ;;:
[n405e] ViewPager ;scroll ; ;;:
[n5b08] ;click ; ;; Walk for 8 min then Bus 40 then Walk for 15
[n17fa] RecyclerView details_cardlist ;scroll ; ;;:
[n9cf6] ;click ; ;; Start location Start location:
[n60dc] ;click ; ;; Walk 8 min (0.3 mi) Zoom map:
[n5265] ;click ; ;; 40 40 Mountain View Transit Ctr Delayed
[n68aa] ;click ; ;; Charleston & Huff Charleston & Huff
[n6561] HorizontalScrollView ;scroll ; ;;:
[n3198] Spinner ;click check ; unchecked ;;Live Not
[ne369] Button ;check ; unchecked ;;Live Not cr
[n0188] Spinner ;click check ; unchecked ;;Accessib
[n3042] Button ;check ; unchecked ;;Accessibili
[n881c] ;click ; ;;:
[n25b5] Button nav_button ;click ; ;;Back to Search :
[n507d] ;click ; ;;:
[n317d] persistent_footer_secondary_button ;click ; ;; 12:38 PM · 4
[n0661] Button ;click ; ;;Turn transit trip guidance off :
[n7595] CompoundButton ;click check ; unchecked ;;Share trip :
[n4427] Button ;check ; unchecked ;;Share trip :
[n66ca] mylocation_button ;click ; ;;Re-center map to your location :
```

Thought: The current observation shows that the navigation has started and it will take approximately 40 minutes to reach the destination "Microsoft SVC Building". The task is now complete. So, the next action is #finish [40 minutes]#.

Action: task finished

Reward: 1.0

Step 6



The current APP is Google Maps.:

```
[n344f] ScrollView expandingscrollView_container ;scroll ; ;;:
[n19b4] ViewPager ;scroll ; ;;:
[n9f7b] ;click ; ;; Walk for 8 min then Bus 40 then Walk for 15
[n5ee5] RecyclerView details_cardlist ;scroll ; ;;:
[neeb5] ;click ; ;; Start location Start location:
[nafd8] ;click ; ;; Walk 8 min (0.3 mi) Zoom map:
[nc17d] ;click ; ;; 40 40 Mountain View Transit Ctr Delayed
[n0d3c] ;click ; ;; Charleston & Huff Charleston & Huff
[ne6fe] HorizontalScrollView ;scroll ; ;;:
[nafo0c] Spinner ;click check ; unchecked ;;Live Not
[n1a1c] Button ;check ; unchecked ;;Live Not cr
[n73ef] Spinner ;click check ; unchecked ;;Accessib
[ndd8a] Button ;check ; unchecked ;;Accessibili
[nf32f] ;click ; ;;:
[n6153] Button nav_button ;click ; ;;Back to Search :
[n2ead] ;click ; ;;:
[n2d51] persistent_footer_secondary_button ;click ; ;; 12:38 PM · 4
[na8af] Button ;click ; ;;Turn transit trip guidance off :
[n3165] CompoundButton ;click check ; unchecked ;;Share trip :
[nebd6] Button ;check ; unchecked ;;Share trip :
[n7727] mylocation_button ;click ; ;;Re-center map to your location :
```