

Problem Solving Project
Partial Fulfillment of Computational Thinking

DAY TOUR PLANNING

TAIPEI CITY



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Problem Solving Project
Task: Day Tour Planning

Background Information

My friend from another country is coming to Taiwan. She can spend with me one day only. I'd like to plan a day tour for my friend. The tour will take place in Taipei City. The day tour is planned by computational thinking.

Steps of Day Tour Planning

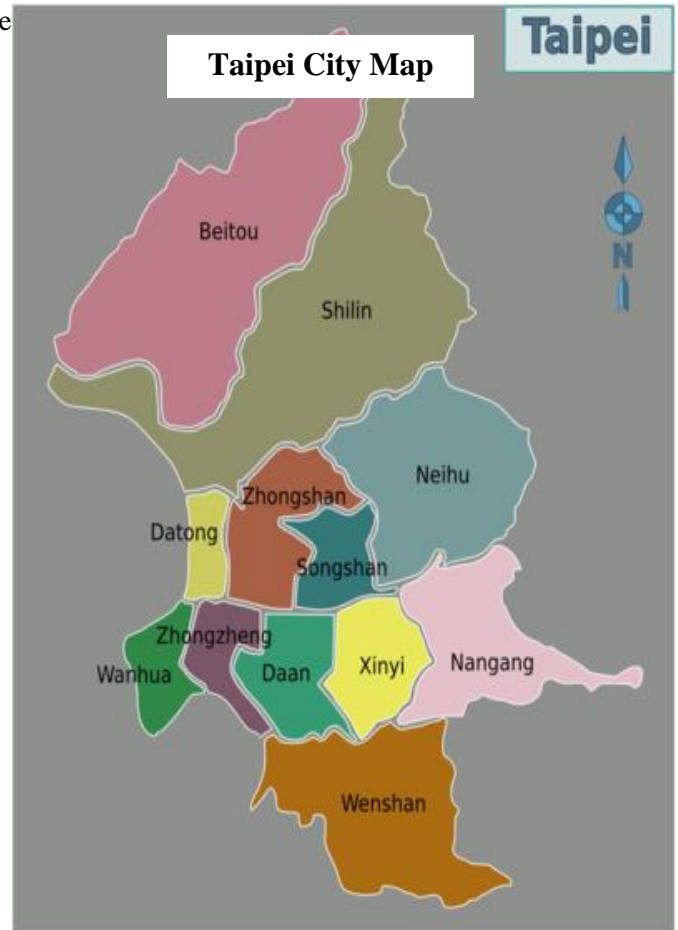
Computational thinking is applied to plan the day tour. It allows us to take a complex problem, understand what the problem is and develop possible solutions. We can then present these solutions in a way that my friend can understand. The four cornerstones of computational thinking guide the steps of the day tour planning.

Step 1. Decomposition: break down a complex system into smaller parts

List famous attractions in Taipei City.

Note: Due to one day tour, famous attractions in city center list here

Area	Attractions
Zhongzheng	Liberty Square (Chiang Kai-shek Memorial Hall) National Taiwan Museum Taipei Botanical Garden Taipei City Mall
Zhongshan	Miniatures Museum of Taiwan Taipei Expo Park
Wanhua	Longshan Temple Ximending Night Market Bopiliao Historical Block
Da'an	Shida Night Market Yongkang Street Area
Wenshan	Maokong Gondola Taipei Zoo
Xinyi	Si Si Nan Cun Village Taipei 101 Discovery Center of Taipei
Songshan	Raohe Night Market Xikou (Rainbow) Wharf
Shilin	Shilin Night Market Taipei Astronomical Museum Shuangxi Park National Palace Museum
Beitou	Yangming Park Zhaojing Temple (Lover's Temple)



Information Source:

<https://www.travel.taipei/en/attraction/regions>

Step 2. Pattern Recognition: find the similarities or patterns

Categorize attractions into different types.

Type	Attractions
Landmark	Liberty Square (Chiang Kai-shek Memorial Hall) Taipei 101 Bopiliao Historical Block
Cultural Spot	Miniatures Museum of Taiwan Longshan Temple Si Si Nan Cun Village Discovery Center of Taipei Zhaojing Temple (Lover's Temple) Taipei Astronomical Museum National Palace Museum
Night Market	Ximending Night Market Shida Night Market Raohe Night Market Shilin Night Market
Shopping Mall	Taipei 101 Taipei City Mall
Scenic Spot	Maokong Gondola Taipei Zoo Yangming Park National Taiwan Museum Taipei Botanical Garden Taipei Expo Park Yongkang Street Area Xikou (Rainbow) Wharf Shuangxi Park

Step 3. Abstraction: filter out specific details to create a representation of each attraction

Represent different types of attraction with icons.

Type	Attractions	Icon
Landmark	Liberty Square (Chiang Kai-shek Memorial Hall) Taipei 101 Bopiliao Historical Block	
Cultural Spot	Miniatures Museum of Taiwan Longshan Temple Si Si Nan Cun Village Discovery Center of Taipei Zhaojing Temple (Lover's Temple) Taipei Astronomical Museum National Palace Museum National Taiwan Museum	
Night Market	Ximending Night Market Shida Night Market Raohe Night Market Shilin Night Market	
Shopping Mall	Taipei 101 Taipei City Mall	
Scenic Spot	Maokong Gondola Taipei Zoo Yangming Park Taipei Botanical Garden Taipei Expo Park Yongkang Street Area Xikou (Rainbow) Wharf Shuangxi Park	
Dining Place		

Step 4. Algorithm: draw a flowchart to indicate a set of step-by-step instructions
 Make the itinerary with Google Map to specify the routes.

Itinerary 1: Attractions

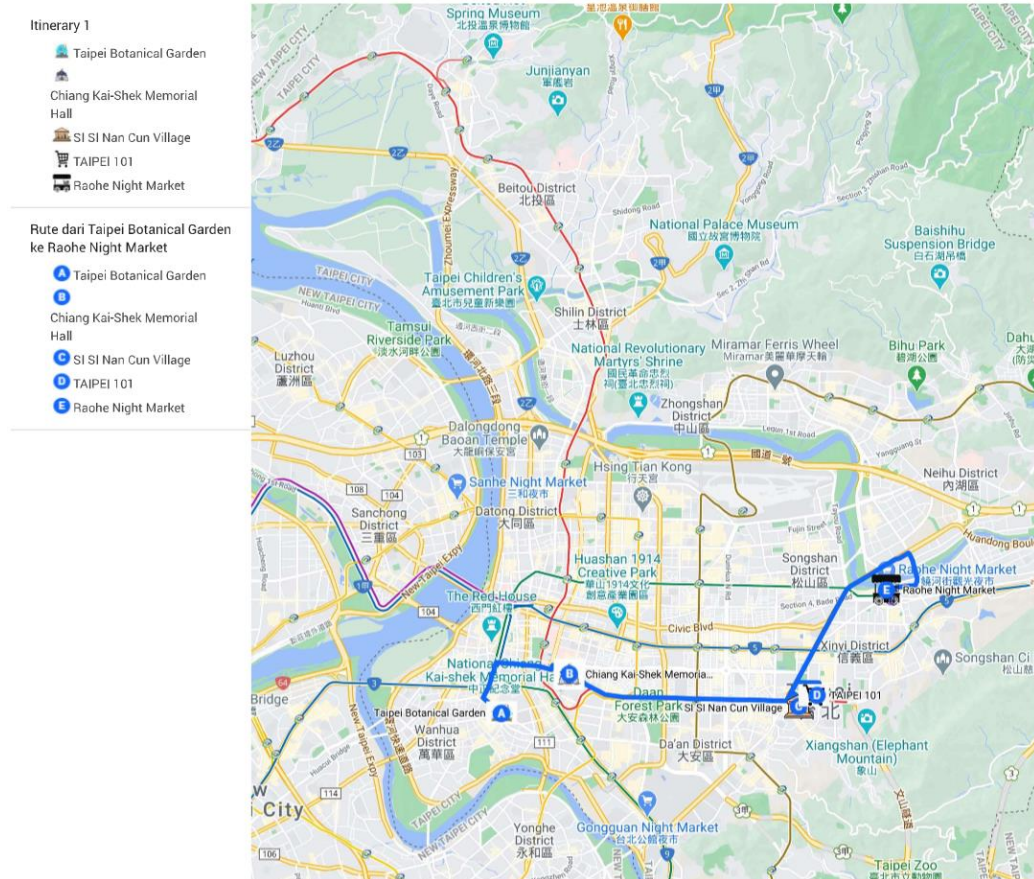
Type	Attractions	Icon
Landmark	Liberty Square (Chiang Kai-shek Memorial Hall)	
Cultural Spot	Si Si Nan Cun Village	
Night Market	Raohe Night Market	
Shopping Mall	Taipei 101	
Scenic Spot	Taipei Botanical Garden	
Dining Place		

Itinerary 1: Route




Online Map

<https://www.google.com/maps/d/edit?hl=id&hl=id&mid=1a3F2vd5Vhh9wHaP7mP6sMQKDCBf7As7j&ll=25.05794788590542%2C121.54341642883303&z=14>

Taipei Day Tour



Itinerary 1: Attraction Description

Attraction	Description
<p>Liberty Square (Chiang Kai-shek Memorial Hall)</p> 	<p>Famous national monument, landmark and tourist attraction erected in memory of Chiang Kai-shek, the first President of the Republic of China. The ground level of the memorial houses a library and a museum documenting Chiang Kai-shek's life and career, with exhibits detailing Taiwan's history and development. The upper level contains the main hall, in which a large statue of Chiang Kai-shek is located, and where a guard mounting ceremony takes place at regular intervals.</p>
<p>Si Si Nan Cun Village</p> 	<p>Originally a housing complex for soldiers in the Kuomintang army after the relocation to Taiwan. As time goes by, the site is adapted into a cultural and educational zone. Some of the old townhouses are retained, while a few others serve as the Xinyi Public Assembly Hall for holding open events and performances, as well as displaying the village's early remains. At its holiday square, farmers' markets, handicrafts markets, and a flea market called Simple Market are held. The unique atmosphere has drawn many couples to take memorial wedding photos here.</p>
<p>Raohe Night Market</p> 	<p>One of the oldest night markets in Taipei, the Raohe Street Night Market is a must visit destination! The epitome of a traditional Taiwanese night market, this 600m path along Raohe Street in Songshan District is packed with fun and interesting night foods and snacks, quaint shops and stalls, and carnival games with prizes.</p>

Taipei 101



TAIPEI 101 Observatory. At 382 meters above the ground the 89F Observation Floor offers visitors a commanding view of the city and Taipei Basin at all directions. The Observatory is equipped with high - power binoculars, drinks bar, image services, pre-recorded audio tour guides in seven languages, & souvenir shops.

TAIPEI 101 MALL. Taiwan's premier international shopping destination, featuring luxury goods, fashions, and fine dining. Taipei 101 Mall has gathered together the finest in fashion and refined dining from around the world.

Taipei Botanical Garden



The Botanical Garden was established on January 22, 1921. In 1930, there were 1,129 species in the garden, serving greatly to academic research and natural science. However, the garden was deserted during World War II. After the war, the garden was rearranged and new plants were introduced. Currently, the garden is well maintained and has over 1,500 species of plants.

There are 17 districts in the garden, exhibiting various plants. The 9 ponds are also designed to grow different plants. Many people come here to appreciate the lotus in summer and falling leaves in winter.

Itinerary 2: Attractions

Type	Attractions	Icon
Landmark	Liberty Square (Chiang Kai-shek Memorial Hall)	
Cultural Spot	National Taiwan Museum	
Night Market	Ximending Night Market	
Shopping Mall	Taipei City Mall	
Scenic Spot	Taipei Botanical Garden	
Dining Place		

Itinerary 2: Attraction Description

Attraction	Description
<p>Liberty Square (Chiang Kai-shek Memorial Hall)</p> 	<p>Famous national monument, landmark and tourist attraction erected in memory of Chiang Kai-shek, the first President of the Republic of China. The ground level of the memorial houses a library and a museum documenting Chiang Kai-shek's life and career, with exhibits detailing Taiwan's history and development. The upper level contains the main hall, in which a large statue of Chiang Kai-shek is located, and where a guard mounting ceremony takes place at regular intervals.</p>
<p>National Taiwan Museum</p> 	<p>The National Taiwan Museum, established in 1908, is the oldest museum in Taiwan. It was founded by the colonial government during Taiwan's period of Japanese rule. Containing more than 100 years of objects on anthropology, geology, zoology and botany, it is the oldest natural history museum in the country. Through the Museum, you will see the tracks of development and the different faces of Taiwan.</p>
<p>Ximending Night Market</p> 	<p>Ximending was founded during the Japanese colonization era as a recreation district, and today has grown into a cultural icon with inspiration drawn from its Japanese roots. Ximending has been called the "Harajuku of Taipei" and the "Shibuya of Taipei". Ximending is the source of Taiwan's fashion, subculture, and Japanese culture. Ximending has a host of clubs and pubs in the surrounding area. The well-known Ximending Pedestrian Area was the first pedestrian area built in Taipei and is the largest in Taiwan.</p>

Taipei City Mall



“Taipei City Mall” is the largest and longest underground street in Taiwan that connects Taiwan Railway Administration (TRA), Taiwan High Speed Rail (TSHR), Taipei Metro, Beimen Station on Songshan Line of Taipei Metro and Taoyuan Metro as well as Taipei Bus Station, making it highly accessible and convenient. The Mall is divided into four main regions: clothing, miscellaneous, electronics, and F&B, providing comprehensive services and products, including clothing, daily necessities, handicrafts, and Taiwanese delicacies. The most noteworthy part includes those selling video games, anime, figurines and gashapon (capsule toys). Taipei City Mall is even known as the “Akihabara of Taipei”. In addition, Taipei City Mall is open throughout the year and is unaffected by changes in weather. It is the best shopping district suitable for all age groups.

Taipei Botanical Garden



The Botanical Garden was established on January 22, 1921. In 1930, there were 1,129 species in the garden, serving greatly to academic research and natural science. However, the garden was deserted during World War II. After the war, the garden was rearranged and new plants were introduced. Currently, the garden is well maintained and has over 1,500 species of plants. There are 17 districts in the garden, exhibiting various plants. The 9 ponds are also designed to grow different plants. Many people come here to appreciate the lotus in summer and falling leaves in winter.

Itinerary 3: Attractions

Type	Attractions	Icon
Landmark	Taipei 101	
Cultural Spot	Discovery Center of Taipei	
Night Market	Shi Lin Night Market	
Shopping Mall	Taipei City Mall	
Scenic Spot	Shuangxi Park	
Dining Place		

Itinerary 3: Route

Online Map

<https://www.google.com/maps/d/edit?hl=en&hl=en&mid=1-rWq5un16db27sFeHxUj7JTgDIRKtAr&ll=25.06606233051857%2C121.53965500000001&z=14>

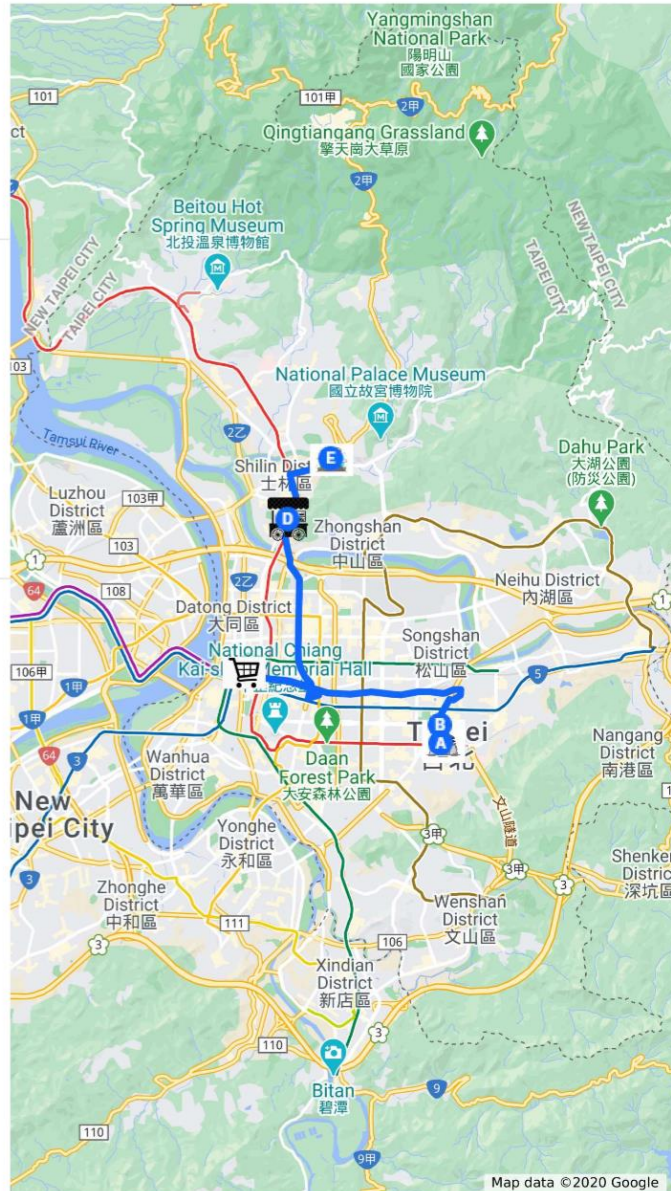
Taipei Day Tour

Itinerary 3

-  TAIPEI 101
-  Discovery Center of Taipei
-  Shi Lin Night Market
-  Taipei City Mall
-  Shuangxi Park

Directions from TAIPEI 101 to Shuangxi Park

- A** TAIPEI 101
 - B** Discovery Center of Taipei
 - C** Taipei City Mall
 - D**
- Shi Lin Night Market, Section 5, Zhongshan North Road, Shilin District, Taipei City
- E** Shuangxi Park



Itinerary 3: Attraction Description

Attraction	Description
<p>Taipei 101</p> 	<p>TAIPEI 101 Observatory. At 382 meters above the ground the 89F Observation Floor offers visitors a commanding view of the city and Taipei Basin at all directions. The Observatory is equipped with high - power binoculars, drinks bar, image services, pre-recorded audio tour guides in seven languages, & souvenir shops.</p> <p>TAIPEI 101 MALL. Taiwan's premier international shopping destination, featuring luxury goods, fashions, and fine dining. Taipei 101 Mall has gathered together the finest in fashion and refined dining from around the world.</p>
<p>Discovery Center of Taipei</p> 	<p>The Discovery Center of Taipei is located in Taipei City Hall. Although it was originally the Documents Hall for the city government, after the redesign, it has become a city museum dedicated to the historical development of Taipei. The facility employs a large amount of visual and auditory data as well as interactive exhibits. When children visit the Discovery Center, they are not just able to listen; they are also able to see, hear and try for themselves. The fourth floor exhibits all of Taipei's historical records, and the installation include a model of a city wall, replicas of important articles, a folk custom experiential area and a 360 degree silver screen "Discovery Theater" which provides visitors with a full sensory experience. The third floor leads visitors on an active exploration of the streets and buildings in Taipei. Regardless of whether one starts from the first floor and proceeds upward, starting from the present and traveling into the past, or from the fourth floor down to the first, taking a tour from the past to the present, one is sure to receive a stirring tour of Taipei.</p>

Shi Lin Night Market



The Shi Lin Night Market in Taipei is one of the largest, most popular night markets in Taiwan with regard to food, and also one of the most popular points of Taipei's night life among visitors. The maze of alleyways is filled with a variety of local, traditional, and international merchandise that attract locals and foreigners alike. The night market consists of two major elements: general merchandise and local cuisine. Along the western edge of the market is the Shilin Night Market Food Court (士林夜市 B1 美食區), an underground food paradise.

Taipei City Mall



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Shuangxi Park



The total area of the park is 2 hectares. Built in 1974 the southern Chinese courtyard style architecture. It features pavilions, courtyards, arch bridges, zig-zag bridges, and corridors. The landscape layout and construction was completed by Hu Guoli (胡國禮). The gardens gained some fame around 2013 when the government introduced giant lily-pads that you could actually sit on. Unfortunately, the government stated last year that the giant lily pads will not be returning (for now). However, the park is still a beautiful green space that is worth a visit if you are in the mood to explore, or just need a quiet place to collect your thoughts.