# **Computer Programming 2**

2024/03/12 Andy Hung

### **Outline**

- HW01 solution
- HW02
- Git
- EX01

#### HW01 solution

```
#include <iostream>
     #include <vector>
     #include <limits> // For numeric_limits
     using namespace std;
 6
     int main() {
         int N; // Number of days
         cin >> N;
10
         vector<int> prices(N); // Array to store the prices
11
12
         for(int i = 0; i < N; i++) {</pre>
             cin >> prices[i];
13
14
15
         // Initialize variables for the minimum price so far and the maximum profit
16
17
         int min_price = numeric_limits<int>::max();
         int may profit = 0.
18
```

#### **HW02**

#### Description

You are given n arrays, each array is sorted in ascending order. Merge all arrays into one sorted array in ascending order.

#### Input

First line includes a number n, means there are n arrays. Then there are n sections, each section includes a number k in the first line, and k numbers separated in space in the second line.

**Technical Specification:** 

- $0 \le n \le 10^4$
- $0 \le k \le 500$
- $-10^4 < num < 10^4$

### **HW02**

#### Output

Merge all arrays into one sorted array in ascending order.

```
3
3
1 4 5
3
1 3 4
2
2 6
```

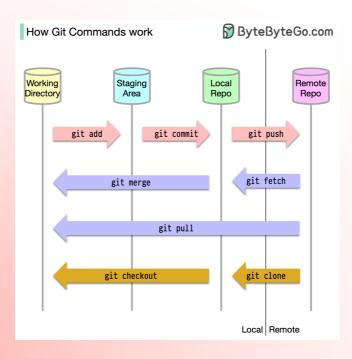
1 1 2 3 4 4 5 6

#### **Tips**

Do not use qsort or std::sort or other sorting methods.

#### Git

- A distributed version control system (VCS)
- Manage and track changes in source code during the development process



## What if not git?

₹	-1.8.0.zip 🕰	2017年11月19日	:
₩	20200507.rar 🕰	2020年5月6日	:
₹	20200922.rar 🕰	2020年9月22日	:
₹	20211001.rar 🕰	2021年10月1日	:
₹	20211203.rar 🕰	2022年1月14日	:
₹	201903014.rar 🚢	2019年3月19日	:
₹	_20180627成功版.rar 🚢	2018年7月8日	:
₹	11.20.zip 🚢	2017年11月19日	:
W	系統文件20190403.docx 🕰	2019年4月2日	:

### **Install Git**

• Windows: Git Bash

• Ghost: Included

Mac:

brew install git

• Linux(Ubuntu/Debian):

sudo apt install git

### **Github**

- One of the largest repository hosting service.
- Have bunch of tools help developers.
  - Pull requests
  - Issues
  - Wiki

#### Tips

Git!= Github

## Setup your Github's git setting

#### **Tips**

Password is not allowed when using github via git cli.

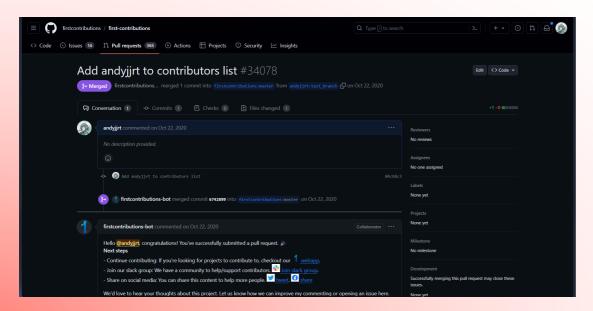
- SSH: Adding a new SSH key to your GitHub account
  - Generating a new ssh-key
  - Highly recommand generate a new one even you may already have one

```
$ ssh -T git@github.com
Hi andyjjrt! You've successfully authenticated, but GitHub does not provide shell access.
```

HTTPS: Managing your personal access tokens

#### **EX01: Github First Contribution**

- Follow the instructions: First Contributions
- In your PR, please leave your student ID in the comment.
- Copy the PR link, and submit ex01



# Thanks for listening