



Tsuen Wan Government Secondary School
Olympiad in Informatics Team

SDIC 2026 Final Event

Briefing Session

Wong Sheung Chit

21 October 2026

Competition Format

Senior: 4 hours

Junior: 3.5 hours

4 tasks

File input / output

Scoring by case

Select last submission only (submit to HKOI Online Judge)

No online IDE (“Code” function) provided

Only accept C++14

File Input / Output

REMEMBER!

Situation Input from `pixel.in` Output to `pixel.out`

Just add

```
freopen("pixel.in", "r", stdin);
```

```
freopen("pixel.out", "w", stdout);
```

to the beginning of the `main()` function!

Fail to do the above will result in **ZERO MARKS** in the whole task!

File Input / Output

REMEMBER!

For faster input / output time, you should

- Add `ios::sync_with_stdio(false), cin.tie(0), cout.tie(0);` to the beginning of the `main()` function.
- **Use `'\n'` instead of `endl`** for faster output speed.

You should always do the above in all tasks as it may help you pass a few more cases.

You must do this when you have $\geq 10^6$ data to input as you will have **high chance to get all TLE without them.**

Local Testing

Situation You are going to compile and run the file `coke.cpp`.

1. Go to the correct file path by using `cd`

2. **Compile**

```
g++ coke.cpp -O2 -std=c++14 -static
```

To emulate the judging environment (C++14 is used),
you may skip it if you really forget it.

3. **Run Code**

```
./a.out
```

ALWAYS save and re-compile your code after editing it!

Local Testing

Situation You are going to do local testing for the task `coke`.

Note that the sample	input	output	will be stored in...
• Sample 1	<code>coke1.in</code>	<code>coke1.ans</code>	
• Sample 2	<code>coke2.in</code>	<code>coke2.ans</code>	
	⋮	⋮	

When you want to test using sample 1...

1. Open a file named `coke.in` and copy all contents in `coke1.in` to it.
2. Run your code.
3. Use `cmp coke.out coke1.ans` to check if the two files are different.

Your output
Expected answer
(Only the first difference will be returned.)

Multiple Cases in One Test

Some problems may have multiple cases in one test!

Note that the cases has no effect to each other!

【输入格式】

从文件 *color.in* 中读入数据。

本题有多组测试数据。

输入的第一行包含一个正整数 T ，表示数据组数。

接下来包含 T 组数据，每组数据的格式如下：

第一行包含一个正整数 n ，表示数组长度。

第二行包含 n 个正整数 $A_1, A_2, \dots, A_n$ ，表示数组 A 中的元素。

【样例 1 输入】

```

1 3 ..... T
2 3
3 1 2 1 Case 1
4 4
5 1 2 3 4 Case 2
6 8
7 3 5 2 5 1 2 1 4 Case 3

```

【数据范围】

对于所有测试数据，保证： $1 \leq T \leq 10$ ， $2 \leq n \leq 2 \times 10^5$ ， $1 \leq A_i \leq 10^6$ 。

How many input data are there?

$$\begin{aligned}
 & T \times n \\
 &= 10 \times (2 \times 10^5) \\
 &= 2 \times 10^6
 \end{aligned}$$

→ Must use fast input / output!

Multiple Cases in One Test

REMEMBER!

How to deal with multiple cases in one test?

Here, function `solve()` **handle each case separately**.

Remember `solve()` must input all data for a case without terminating early before finishing the input, otherwise the next case will get wrong inputs.

In `main()`, we input the number of cases and call `solve()` once for each case.

```
#include <bits/stdc++.h>
using namespace std;
#define int long long

void solve(){
    int n, A[200005];
    cin >> n;
    for (int i=0; i<n; i++){
        cin >> A[i];
    }
}

int32_t main(){
    freopen("pixel.in", "r", stdin);
    freopen("pixel.out", "w", stdout);
    ios::sync_with_stdio(false);
    cin.tie(0), cout.tie(0);
    int T;
    cin >> T;
    for (int i=0; i<T; i++){
        solve();
    }
}
```

Past Cut-offs

Full Score 400

	Senior			Junior		
	Gold	Silver	Bronze	Gold	Silver	Bronze
2025	137	60	30	257	205	130
2024	175	105	60	260	170	80
2023	175	80	55	200	90	40
2022	175	70	50	185	105	85
2021	100	50	30	221	100	70
2020	120	65	30	175	100	60

Gold cut-off is about 20% of all Hong Kong contestants.
(Usually higher than National average!)

Silver and Bronze cut-offs are the same across the nation.
(Except some weaker provinces.)

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	Gold	Gold
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2020	120	175

Previous years I repeat the significance of watering to get Silver / Bronze for members that are not *very* strong but still got into the Final Event.

But since this year we only have 2+2 getting into Final, let's aim for 4 Golds!

...

Ok, seems I'm blowing too much water.

!!! Maybe you should ***water*** more score then!

Print Admission Form

1. Go to cspsjtest.noi.cn and login to your account
2. Press 活动列表.
3. Press 查看 of your group's event:
 - Senior Group CSP-S 2026第二轮认证 提高组
 - Junior Group CSP-J 2026第二轮认证 入门组
4. Press 准考证.
5. Press 下载准考证.
6. Open the PDF file and print it out (both colour and monochrome are acceptable).

Competition Day Arrangements

31 October 2026 (Saturday)

Report at

Senior 13:45 – 14:00

Junior 07:45 – 08:00

CALC Computer Lab, Wah Yan College, Kowloon

Bring **HKID Card, Student Card, Team Jacket**, pencil, eraser

Download and print out Admission Form at cspsjtest.noi.cn

Competition Day Arrangements

DO NOT

ABSENT

OR

BE LATE

OR

MISSING THINGS REQUIRED

OTHERWISE PAY \$320