## Advanced STEM Students

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#### Ngày 29 tháng 5 năm 2025

#### Tóm tắt nội dung

This text is a part of the series Some Topics in Advanced STEM & Beyond:
URL: https://nqbh.github.io/advanced\_STEM/.
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# 1 UMT Summer Semester 2025/1480: Introduction to Mathematical Analysis

- 1. TRẦN THANH CƯỜNG.
  - Absence: -2.
  - Early attendance: 0.5 + 0.5.
  - Bonus:
- 2. HUỳNH LÂM VŨ ĐÌNH.
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus:
- 3. Trương Công Hoan.
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus:
- 4. Nguyễn Huy Hoàng [NHH].

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- Early attendance: 0.5 + 0.5 + 0.5.
- Bonus: 0.25 + 0.5 + 0.5 + 1 + 2 (count rooms) + 2 (build roads) + 2 (labyrinth) + 2 (message route).
- 5. Lữ Minh Hoàng.
  - Absence: -2.
  - Early attendance: 0.5.
  - Bonus:
- 6. Hà Quang Huy.
  - Early attendance: 0.5 + 0.5.
  - Bonus:
- 7. NGUYỄN BẢO KHÁNH.
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus: 1 + 2 + 1 + 0.5.
- 8. Nguyễn Lê Đăng Khoa [NLDK].
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus: 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 (gift) + 1.5 + 0.25 + 0.5 (doubles) + 0.5 (prime) + 0.5 (houseboat) + 1 (red black) + 1 (count rooms) + 1 (dice) + 1 (min coin) + 1 (coin combination I) + 1 (coin combination II) + 1 (grid path I) + 1.5 (book shop) + 1 (exp I) + 1 (exp II).
- 9. Phan Gia Lạc [PGL].
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus: 0.5 + 0.25 + 0.25 + 0.5 (doubles) + 0.5 (houseboat) + 0.5 (prime) + 1 (count room) + 1 (min coin).
- 10. Phan Phương Phi [PPP].
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus: 1 + 0.5 + 1 + 0.5 + 0.5 (prime) + 1 (count rooms) + 1 (dice) + 1 (coin) + 1 (coin combination I).
- 11. Đặng Minh Phương.
  - Early attendance: 0.5 + 0.5.
  - $\bullet$  Absence: -2.
  - Bonus:
- 12. Nguyễn Hoàng Quân.
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus:
- 13. Đường Nguyễn Minh Sơn.
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus:
- 14. Hấu Trung Thành.
  - Absence: -2 2.
  - Early attendance: 0.5.
- 15. Tạ Minh Thiện.
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus:
- 16. Lê Nguyễn Quốc Toàn.
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus:
- 17. Nguyễn Hoàng Ngọc Trân.

- Absence: -2 2 2.
- Bonus:
- 18. Nguyễn Anh Tuyển.
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus:
- 19. Nguyễn Như Ý.
  - Early attendance: 0.5 + 0.5 + 0.5.
  - Bonus: 1.

#### 1.1 Potential topics for midterm exam

1. Cho dãy số  $\{u_n\}_{n=1}^{\infty}$ . Cho vài giá trị cụ thể của  $\varepsilon$ , tính  $N_{\varepsilon}$ .

# 2 UMT Summer Semester 2025/1481: Introduction to Mathematical Analysis

- 1. LÊ MINH TRÂM ANH.
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Bonus:
- 2. Nguyễn Bảo Anh.
  - Early attendance: 0.75 + 0.75.
  - Late: 5 mins.
- 3. Cao Gia Bảo.
  - Absence: -2.
  - Early attendance: 0.75 + 0.75 + 0.75.
- 4. Vũ Văn Đạt.
  - Absence: -2.
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Bonus: 1 + 0.5.
- 5. TRẦN VĂN HÂU.
  - Absence: -2.
  - Early attXuendance: 0.75 + 0.75 + 0.75.
  - Bonus: 1.
- 6. Nguyễn Ngọc Bích Hiền.
  - Early attendance: 0.75 + 0.75 + 0.75 + 0.75.
  - Bonus: 0.25 + 1 + 1 + 2 + 1.
- 7. Nguyễn Văn Hiếu.
  - Early attendance: 0.75 + 0.75 + 0.75.
- 8. Dương Xuân Hưng [DXH].
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Bonus: 1 + 1 + 1 (gift) + 1 (picture) + 2 (count rooms) + 2.5 (coin combination I) + 2 (coin combination II) + 3 (array description).
- 9. Trần Lê Gia Huy.
  - Early attendance: 0.75 + 0.75 + 0.75.
- 10. TRẦN QUANG HUY.
  - Absence: -2.

- Early attendance: 0.75 + 0.75.
- 11. Đặng Phúc An Khang [DPAK].
  - Early attendance: 0.75 + 0.75.
  - Late: 15 + 52 mins.
  - Bonus: 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 1 + 0.5 (virus) + 0.5 (gift) + 0.5 (game) + 0.25 (financial management) + 0.5 + 0.5 (prime) + 1 (red black) + 1 + 1 ( $x^a$ ) + 1 (count room) + 1 (build road) + 1 (dice combination) + 1 (minimizing coin) + 1 (coin combination I) + 1 (coin combination II) + 1.5 (remove digit) + 1 (grid path I) + 1 (book shop) + 1 (exp I) + 1.5 (edit distance) + 1.5 (longest common subsequence).
- 12. Lương Quốc Khánh.
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Bonus: 1 + 1 + 1 + 1.
- 13. Nguyễn Hà Đăng Khoa.
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Bonus: 1.
- 14. Nguyễn Huy Đăng Khoa.
  - Absence: -1.
  - Early attendance: 0.75.
- 15. HUỳNH Đỗ ĐĂNG KHOA.
  - Late: 23 + 25 mins. \*\*\*
  - Early attendance: 0.75.
- 16. TRẦN TRUNG KIÊN.
  - Early attendance: 0.75 + 0.75 + 0.75.
- 17. Nguyễn Huỳnh Chí Lâm.
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Bonus: 1 + 0.75 + 1 + 1.
- 18. Lê Hoàng Linh.
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Bonus: 1 + 1.
- 19. Lâm Bảo Ngọc.
  - Absence: -1.
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Bonus: 0.25.
- 20. Nguyễn Lương Nghĩa.
  - Early attendance: 0.75 + 0.75 + 0.75 + 0.75.
  - Bonus: 0.5 + 1 + 1 + 3 + 1.5 + 1.5.
- 21. TRẦN PHÚC NGUYÊN.
  - Early attendance: 0.75 + 0.75 + 0.75 + 0.75.
- 22. Bùi Văn Nhớ.
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Late: 40 mins.
  - Bonus: 1 + 1 + 1 + 1 + 3 + 0.75.
- 23. Lê Thanh Tân.
- Absence: -1.

- Early attendance: 0.75.
- Late: 5 mins.
- 24. Huỳnh Thị Kiều Thu.
  - Early attendance: 0.75 + 0.75 + 0.75 + 0.75.
  - Bonus: 1 + 1 + 1.
- 25. Hoàng Nghĩa Tín.
  - Early attendance: 0.75 + 0.75 + 0.75.
- 26. Hoàng Anh Tuấn.
  - Absence: -2.
  - Early attendance: 0.75 + 0.75 + 0.75.
- 27. Ngô Thanh Tùng.
  - Absence: -2 2.
  - Late: 29 mins.
- 28. Ngô Hoàng Tùng [NHT].
  - Early attendance: 0.75 + 0.75 + 0.75.
  - Bonus: 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 1.5 + 0.5 + 0.5 (virus) + 0.5 (virus) + 0.5 (gift) + 0.5 (game) + 1 + 1 (count rooms) + 1 (labyrinth) + 1 (build roads) + 1 (dice) + 1 (min coin) + 1 (coin combination I) + 1 (coin combination II) + 1 (remove digit) + 1 (grid path) + 1.5 (array description) + 1 (book shop) + 1.5 (count towers) + 1.5 (edit distance) + 1 (exp I) + 1 (exp I).
- 29. TRẦN MỘNG TUYỀN.
  - Early attendance: 0.75 + 0.75 + 0.75.
- 30. Nguyễn Quang Vỹ.
  - Absence: -1.
  - Early attendance: 0.75 + 0.75.
  - Bonus: 1.5 + 4 + 1 + 1.5.

## 3 UMT Summer Semester 2025/1387: Combinatorics & Graph Theory

- 1. VÕ NGỌC TRÂM ANH [VNTA].
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5.
  - Bonus: 0.75 + 1 + 2 + 1.5 + 0.5 + 0.5 + 0.5 (Fibonacci + Lucas) + 0.5 (virus) + 2.5 (gen func) + 2.5 (Euler candy gen func) + 0.5 (houseboat) + 0.5 (prime) + 1 (red black) + 1 (count rooms) + 1 (labyrinth) + 1 (build roads) + 1 (message routes) + 1 (build team) + 1 (round trip) + 1 (monster) + 1.5 (flight route) + 1 (dice) + 1 (coin) + 1 (coin combination I) + 1 (coin combination II) + 1 (grid path) + 1 (Dijkstra) + 1 (proof Dijkstra) + 1 (Dijkstra priority queue) + 1 (exp II) + 1 (Stirling 1 DP) +
- 2. Hoàng Anh [HA].
  - Early attendance: 0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5.
  - Bonus: 1.5 + 1 + 0.5 + 1.5 + 1 (Stirling 2).
- 3. VÕ HUỲNH THÁI BẢO.
  - Early attendance: 0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5.
  - Late: 7 mins.
  - Bonus:
- 4. TRẦN MẠNH ĐứC.
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.25 + 0.25 + 0.5.
  - Bonus: 1.5 + 1 + 1.5 + 0.5 (Stirling 2).
  - Late: 18 + 7 mins.

- 5. Nguyễn Trung Hậu.
  - Absence: -2 2 2 2.
  - Early attendance: 0.25 + 0.25.
  - Bonus:
  - Late: 24 mins.
- 6. Pham Phước Minh Hiếu.
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5.
  - Bonus: 1 + 0.5 + 1 (Stirling 2) + 1 (Stirling 2 Python).

Chấm report Hiếu week 1: B2 Catalan mã O+1 bạn hiểu sai đề: đề kêu chứng minh số cách đặt n dấu ( & ) đúng là số Catalan  $C_n$ , hông phải tính số Catalan số 4 nên +0. bài m số 0 & n-m số 1, làm cách khác tui +1. Prob. 4 CM  $|2^[n]| = 2^n$ : +1. Prob. 5: dùng nguyên lý bao hàm-loại trừ chưa chặt chẽ, bài đó cần lý luận nhiều & khó hơn: +0.25. Prob. 6: +1. Prob. 1: +1. Prob. 2: +1.

Ex1.cpp: +0.5, Ex3: +0.5, Ex5.cpp: +1, Ex6.cpp: +1. Ex7.cpp: +1, Ex8.cpp & Ex9.cpp: +0 (bài toán khó hơn thế vì có thể có nhiều bộ điểm thẳng hàng nên việc mô tả cấu trúc hình học là phần khó chính)

- 7. Hoàng Quang Huy.
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25.
  - Bonus: 2 + 1.5.
- 8. Phan Nguyễn Duy Kha.
  - Absence: -1.
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.25 + 0.25.
  - Bonus: 1.5 + 1 + 1 + 1 + 1.5 + 1.5.
  - Late:
- 9. Đặng Phúc An Khang.
  - Bonus: 0.5 + 1 + 1.
- 10. Phạm Minh Khoa.
  - Absence: -2 2.
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.5 + 0.25.
  - Bonus:
  - Late:
- 11. TRẦN THÀNH LỢI.
  - Absence: -2 2 2.
  - Early attendance: 0.25 + 0.25.
  - Bonus:
  - Late: 23 + 60 mins.
- 12. Lê Đức Long.
  - Absence: -2.
  - Early attendance: 0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25.
  - Bonus: 1 + 0.5 + 1 + 1.
- 13. Lê Công Hoàng Phúc.
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.25 + 0.25 + 0.5.
  - Bonus: 1.
  - Late: 24 + 3 mins.
- 14. Huỳnh Nhật Quang.
  - Absence: -2 2.
  - Early attendance: 0.25.

- Late: 10 + 20 + 20 mins.
- Bonus:
- 15. Cao Sỹ Siêu.
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5.
  - Bonus: 1 + 1.
- 16. Sơn Tân [ST].
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5.
  - Bonus: 1 + 1 + 1.5.

Chấm report Sơn Tân: 0.25 (a) + 0.25 (b) + 0.25 (c) + 0.25 (e) + 0.25 (g, ghi sai mũ) + 0.25 (h) + 1.5 (Pascal, làm được cho  $(sum_{i=1}^{m}a_{i})^{n}$  nhiều điểm hơn) + 2 (tính  $C_{n}^{k}$ ).

- 17. NGUYỄN NGỌC THẠCH [NNT].
  - Early attendance: 0.25 + 0.25 + 0.5 + 0.25 + 0.5.
  - Bonus: 3 + 1 + 1 + 1.5 + 2 (Catalan) + 5 (Euler candy) + 2.5 (induction) + 1 (toss coin) + 1 (dice roll) + 1 + 1 + 2 (combinator identity) + 1.5 (dollar) + 0.5 + 2.5 + 1.5 + 1 + 1 + 1 + 1 + 1.5 + 1 + 1.5 (Stirling 2 recursive).
  - Late: 5 + 23 mins.
- 18. Phan Vĩnh Tiến [PVT].
  - Late: 8 + 25 + 16 mins.
  - Early attendance: 0.25 + 0.5 + 0.25 + 0.5.
  - Bonus: 2 + 0.5 (virus) + 1 + 2 (binomial) + 1 (exp I) + 1 (exp II) + 1 (Stirling 2 DP) + 1 (Bell).

#### 3.1 Potential topics for midterm- & final exams

- Chứng minh bằng phương pháp quy nạp toán học.
- Bài toán chia keo Euler.
- Khai triển nhi thức Newton.
- Sử dụng định lý Euler & thuật toán Havel-Hakimi để chạy tay kiểm tra 1 dãy có phải là graphical sequence hay không. Vẽ đồ thị minh họa.
- Hàm sinh.
- Chạy tay thuật toán Dijkstra.
- Shortest path problem on graph Bài toán đường đi ngắn nhất.

## 4 UMT Summer Semester 2025/1488: Introduction to AI

- 1. Hồ Lê Duy.
  - Absence: -2.
  - Early attendance: 0.5 + 0.5 + 0.5.
- 2. Trương Công Hoan.
  - Early attendance: 0.5 + 0.5 + 0.5 + 0.5.
- 3. Lữ Minh Hoàng.
  - Early attendance: 0.5 + 0.5 + 0.5 + 0.5.
- 4. DINH KIM HUNG.
  - Early attendance: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 3.
- 5. HUỲNH VÕ QUỐC KHÁNH.
  - Absence: -2 2.

- Early attendance: 0.5 + 0.5.
- 6. Nguyễn Nhật Khôi.
  - Absence: -2.
  - Early attendance: 0.5 + 0.5.
- 7. VÒNG LY NÀM PHÚC VLNP.
  - Early attendance: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 1.5 + 2 (extended scheduling).
- 8. Hầu Trung Thành.
  - Absence: -2 2.
  - Early attendance: 0.5.
  - Late: 5 mins.
- 9. Nguyễn Thi.
  - Absence: -2 2 2 2.
- 10. Đặng Nguyễn Duy Trường.
  - Early attendance: 0.5 + 0.5 + 0.5 + 0.5.

# 5 UMT Summer Semester 2025/1493: Information Technology Fundamentals 2

- 1. Cao Nguyễn Gia An.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 3.5 + 2 + 2 + 2.5 + 2.5 + 1 + 1.5 + 1 + 1 + 1.5 + 2.5 + 1 (eval func) + 1.5 + 2 + 2 + 2.5.
- 2. Hoàng Trâm Anh.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 1 + 2 + 2 + 2.5 + 1.5 + 0.5 + 1 + 1.5.
- 3. Bùi Nguyên Minh Dũng.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 2.5 + 2 + 2 + 2.5 + 2.5 + 1 + 1.5.
- 4. Nguyễn Ngọc Hân.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 0.5 + 1 + 1.5 + 0.5 + 1 + 1 + 1.5 + 1 + 1.5 + 2 + 2 + 2.5.
- 5. NGUYỄN THÀNH THÁI HIỆP.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 3 + 2 + 2 + 2.5 + 2.5 + 1 + 1.5 + 0.5 + 1 + 1.5 +
- 6. Vũ Nguyễn Yến Hoa.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 1 + 2 + 2.5 + 1 + 1.5 + 0.5 + 1 (eval func) + 1.5 + 2.
- 7. Đỗ Huy Hoàng.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
- 8. Nguyễn Gia Huy.
  - Absence: -2 2 2.
  - Early attendence: 0.5 + 1 (eval func) + 1.5 + 2 + 2 + 2.5.
- 9. Pham Lâm Gia Khánh.

- Absence: -2.
- Late: 15 mins.
- Bonus: 0.5 + 0.5 + 1 + 1.5 + 2.
- 10. Pham Xuân Khánh.
  - Absence: -2.
  - Early attendence: 0.5
  - Late: 15 + 30 mins.
  - Bonus: 2 + 1 + 1.5 + 0.5 + 1 + 1.5 + 1 + 2.
- 11. Bùi Đức Khoa.
  - Absence: -2.
  - Early attendence: 0.5 + 0.5 + 0.5.
  - Bonus: 0.5 + 2 + 1 (eval func) + 1.5.
- 12. TRẦN VŨ NGUYÊN KHÔI.
  - Early attendence: 0.5 + 0.5 + 0.5.
  - Late: 20 mins.
  - Bonus: 3 + 2 + 2 + 1 + 1.5 + 1 + 1.5 + 1 + 1.5 + 2 + 2 (near perfect) + 2 + 2.5.
- 13. Vũ Thị Ngọc Lan.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 2.5 + 2 + 2 + 2.5 + 1 + 1.5 + 0.5 + 1 + 1.5 + 1 + 1.5 + 2 + 2 + 2.5.
- 14. TRẦN VĂN LÊN.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 0.5 + 2 + 2 + 2 + 2.5 + 2.5 + 1 + 1.5 + 1 + 1 + 1.5 + 1 (eval func) + 1.5 + 2 + 2 + 2.5.
- 15. Thái Anh Nhật Thiên Long.
  - Absence: -2 2 2.
  - Early attendence: 0.5.
  - Bonus: 2 + 2 + 2.5.
- 16. Lê Nguyễn Bảo Ngọc.
  - Absence: -2 1.
  - Late: 15 + 15 mins.
  - Bonus: 1 + 1.5 + 0.5 + 1 + 1.5 + 1 + 1.5 + 2.
- 17. LÊ HỒNG NGOC.
  - Absence: -2 1.
  - Early attendence: 0.5 + 0.5.
  - Bonus: 2 + 2.5 + 1 (eval func) + 1.5 + 2 + 2.
- 18. Nguyễn Hữu Nhân.
  - Absence: -2 2.
  - Early attendence: 0.5.
  - Bonus: 0.5.
  - Late: 15 mins.
- 19. Lâm Thiên Nhân.
  - Absence: -2.
  - Early attendence: 0.5 + 0.5 + 0.5.
  - Bonus: 2.5 + 1.

- 20. Pham Minh Nhât.
  - Absence: -2
  - Early attendence: 0.5 + 0.5 + 0.5.
  - Bonus: 1.5 + 2 + 2 + 2.5 + 1 + 1.5 + 2.
- 21. Phạm Quỳnh Như.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 1 (eval func)
- 22. Nguyễn Ngọc Quỳnh Như.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
- 23. Đoàn Trương Thiên Phong.
  - Absence: -2.
  - Early attendence: 0.5 + 0.5.
- 24. Hồ Tấn Tài.
  - Early attendence: 0.5 + 0.5 + 0.5.
  - Bonus: 1.5 + 2 + 2 + 1 + 0.5 + 1 + 1 + 1.5 + 2.
  - Late: 10 mins.
- 25. Hồ Quốc Thành.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 1 + 1.5 + 1 + 1 + 1.5.
- 26. Nguyễn Thị Minh Thư.
  - Absence: -2 2 2 2.
- 27. Đỗ Thị Hải Tình.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 2 + 2 + 2.5 + 1 + 1.5 + 0.5 + 1 + 1.5 + 1 + 1.5 + 2.
- 28. VÕ ĐOÀN THÁI TOÀN.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 0.5 + 2 + 2 + 1 + 0.5 + 1 + 1 + 1.5 + 2 + 2.5.
- 29. TRẦN QUỐC TRUNG.
  - Early attendence: 0.5 + 0.5 + 0.5 + 0.5.
  - Bonus: 0.5 + 2 + 2 + 2 + 2.5 + 1 + 0.5 + 1.5 + 1 + 1.5 + 2.

# 6 Olympic Tin OLP ICPC

- 1. Đỗ ANH KIỆT [DAK].
  - Bonus: 0.5 (virus) + 1 (count rooms) + 1 (dice) + 1.5 (shortest route I).
- 2. TRẦN QUANG SƠN [TQS]. K3.
  - Bonus: 0.5 + 1 (prime) + 1 (houseboat).
- 3. Phạm Đăng Hoàng Thiên [PDHT]. K3.
  - Bonus: 0.5 + 1 (houseboat) + 2 (remove digit).

### 7 Miscellaneous