



	011
	100
	101
	110
	111

**Bài 6: Quân hậu.**

Cho một bàn cờ tổng quát  $n$  hàng,  $n$  cột ( $n \leq 100$ ). Một quân hậu trên bàn cờ có thể ăn được bất kỳ quân nào khác nằm tại các ô cùng hàng, cùng cột hoặc cùng đường chéo.

**Yêu cầu:** Hãy tìm cách xếp  $n$  quân hậu trên bàn cờ sao cho các quân hậu không thể ăn nhau được.

**Dữ liệu vào:** Từ file văn bản **QUANHAU.INP** gồm một số nguyên dương  $n$ .

**Dữ liệu ra:** Đưa vào file văn bản **QUANHAU.OUT** gồm các dòng mỗi dòng là một cách đặt  $n$  quân hậu. Nếu không có cách nào thì thông báo nội dung 'không có cách đặt quan hau'.

**Ví dụ:**

QUANHAU.INP	QUANHAU.OUT
5	(1,1) (2,3) (3,5) (4,2) (5,4) (1,1) (2,4) (3,2) (4,5) (5,3) (1,2) (2,4) (3,1) (4,3) (5,5) (1,2) (2,5) (3,3) (4,1) (5,4) (1,3) (2,1) (3,4) (4,2) (5,5) (1,3) (2,5) (3,2) (4,4) (5,1) (1,4) (2,1) (3,3) (4,5) (5,2) (1,4) (2,2) (3,5) (4,3) (5,1) (1,5) (2,2) (3,4) (4,1) (5,3) (1,5) (2,3) (3,1) (4,4) (5,2)

---Hết---

**Ghi chú:**

- Thí sinh không được sử dụng tài liệu.
- Cán bộ coi thi không giải thích gì thêm.

**SỞ GIÁO DỤC VÀ ĐÀO TẠO KỶ THI CHỌN HỌC SINH GIỎI VÒNG TỈNH LỚP 12 THPT  
KIÊN GIANG**

**HƯỚNG DẪN CHẤM  
ĐỀ THI CHÍNH THỨC**

**MÔN: TIN HỌC  
Ngày thi thứ hai: 04/10/2013**

**TỔNG QUAN BÀI THI**

	<i>Tên bài</i>	<i>File chương trình</i>	<i>File dữ liệu vào</i>	<i>File kết quả</i>	<i>Điểm</i>
<i>Bài 4</i>	Số nguyên tố	NGUYENTO.PAS	NGUYENTO.INP	NGUYENTO.OUT	6
<i>Bài 5</i>	Dãy nhị phân	NHIPHAN.PAS	NHIPHAN.INP	NHIPHAN.OUT	7
<i>Bài 6</i>	Quân hậu	QUANHAU.PAS	QUANHAU.INP	QUANHAU.OUT	7

**Bài 1:**

**Test 4: 2 điểm**

NGUYENTO.INP	NGUYENTO.OUT
2 10	2 3 5 7

**Test 2: 2 điểm**

NGUYENTO.INP	NGUYENTO.OUT
2 200	2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103 107 109 113 127 131 137 139 149 151 157 163 167 173 179 181 191 193 197 199

**Test 3: 2 điểm**

NGUYENTO.INP	NGUYENTO.OUT
10 2	không tìm được số nguyên tố

**Bài 5:**

**Test 1: 2 điểm**

NHIPHAN.INP	NHIPHAN.OUT
3	000 100 001 101 010 110 011 111

**Test 2: 2 điểm**

NHIPHAN.INP	NHIPHAN.OUT
6	000000 010110 101011 000001 010111 101100 000010 011000 101101 000011 011001 101110 000100 011010 101111 000101 011011 110000

000110	011100	110001
000111	011101	110010
001000	011110	110011
001001	011111	110100
001010	100000	110101
001011	100001	110110
001100	100010	110111
001101	100011	111000
001110	100100	111001
001111	100101	111010
010000	100110	111011
010001	100111	111100
010010	101000	111101
010011	101001	111110
010100	101010	111111
010101		

**Test 3: 3 điểm**

NHIPHAN.INP	NHIPHAN.OUT
1	0 1

**Bài 6:**

**Test 1: 2 điểm**

QUANHAU.INP	QUANHAU.OUT
5	(1,1) (2,3) (3,5) (4,2) (5,4) (1,1) (2,4) (3,2) (4,5) (5,3) (1,2) (2,4) (3,1) (4,3) (5,5) (1,2) (2,5) (3,3) (4,1) (5,4) (1,3) (2,1) (3,4) (4,2) (5,5) (1,3) (2,5) (3,2) (4,4) (5,1) (1,4) (2,1) (3,3) (4,5) (5,2) (1,4) (2,2) (3,5) (4,3) (5,1) (1,5) (2,2) (3,4) (4,1) (5,3) (1,5) (2,3) (3,1) (4,4) (5,2)

**Test 2: 2 điểm**

QUANHAU.INP	QUANHAU.OUT
8	(1,1) (2,5) (3,8) (4,6) (5,3) (6,7) (7,2) (8,4) (1,1) (2,6) (3,8) (4,3) (5,7) (6,4) (7,2) (8,5) (1,1) (2,7) (3,4) (4,6) (5,8) (6,2) (7,5) (8,3) (1,1) (2,7) (3,5) (4,8) (5,2) (6,4) (7,6) (8,3) (1,2) (2,4) (3,6) (4,8) (5,3) (6,1) (7,7) (8,5) (1,2) (2,5) (3,7) (4,1) (5,3) (6,8) (7,6) (8,4) (1,2) (2,5) (3,7) (4,4) (5,1) (6,8) (7,6) (8,3) (1,2) (2,6) (3,1) (4,7) (5,4) (6,8) (7,3) (8,5) (1,2) (2,6) (3,8) (4,3) (5,1) (6,4) (7,7) (8,5) (1,2) (2,7) (3,3) (4,6) (5,8) (6,5) (7,1) (8,4)

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 (1,2) (2,8) (3,6) (4,1) (5,3) (6,5) (7,7) (8,4)  
 (1,3) (2,1) (3,7) (4,5) (5,8) (6,2) (7,4) (8,6)  
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(1,8) (2,4) (3,1) (4,3) (5,6) (6,2) (7,7) (8,5)

**Test 3: 3 điểm**

QUANHAI.INP	QUANHAI.OUT
3	khong co cach dat quan hau

---Hết---