NOI'95 "同创杯"全国青少年信息学 (计算机) 奥林匹克竞赛 分区联赛复赛测试数据 (初中组)

- <1> 正确算式如下:8分
 - 12) <u>809</u> ① 打印格式占 4% 9709 ② 算式不对不给分 <u>96</u>
 - 96 109 108

1

- <2> 本题 18 分 (4%+6%+8%)
 - ① 输入 N=1 (4%) ② 输入 N=3 (6%)
 - 结果: 结果:
 - 1 781
 - 692
 - 543

- ③输入N=10 (8%)
- 结果: 28 29 30 31 32 33 34 35 36 1
 - 27 58 59 60 61 62 63 64 37 2
 - 26 57 80 81 82 83 84 65 38 3
 - 25 56 79 94 95 96 85 66 39 4
 - 24 55 78 93 100 97 86 67 40 5
 - 23 54 77 92 99 98 87 68 41 6
 - 22 53 76 91 90 89 88 69 42 7
 - 21 52 75 74 73 72 71 70 43 8
 - 20 51 50 49 48 47 46 45 44 9
 - 19 18 17 16 15 14 13 12 11 10
- <3> 本题 14分
 - 输出结果为: A 类=538 B 类=462
- <4> 本题 30 分 (15%+15%)
 - 1 由数组求编码:共15分(5%+5%+5%)
 - a 输入: N=6 A= (0,1,2,3,4,5)
 - 输出: B= (0,1,2,3,4,5)
 - b 输入: N=6 A= (5,4,3,2,1,0)
 - 输出: B= (0,0,0,0,0,0)
 - c 输入: N=8 A= (1,0,3,2,5,4,7,6)

输出: B= (0,0,2,2,4,4,6,6)

2 由编码求原数组:共15分(5%+5%+5%)

a 输入:N=5 B= (0,0,0,0,0)

输出: A= (4,3,2,1,0)

b 输入: N=10 B= (0,1,2,3,4,5,6,7,8,9)

输出: A= (0,1,2,3,4,5,6,7,8,9)

c 输入: N=7 B= (0,0,0,0,4,5,6)

输出: A= (3,2,1,0,4,5,6)

<5> 本题共30分 (10%+10%+10%)

1 数据输入: N=6

P1=R N1=1

Q

排列方案 RRRRRR

排列总数 =6

排列方案:排列总数:

RRRBBYRRBBYRRBBYRRBBYRRRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRRRBBYRBBYRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRBBYRRBBYRRBBYRRBBYRBBYRRBBYRRBBYRRBBYRRBBYRRBBYRBBYRRBBYRRBBYRRBBYRBBYRRBBYRRBBYRRBBYRBBYRRBBYRRBBYR

105×2=210 BYRRBBYRRBBYRRBBYRRBBYRRBBYRR

2 数据输入:NBBYRRRBBYRRRBBYRRRBBYRRRBBYRRRBBYRR

P2=Y RRBBY

Q

排列方案:RF 排列总数=12

3 数据输入: N

P1=R 1

P2=B 1

P3=Y N

Q