

TEST ID: 23280673435929

Debugging Problem

i++

{ } 忘记加

>, <, ==, !=

&&, ||

Count Occurrences: Missing i++ at the end of while loop

Print Pattern: Missing { } to wrap up the two lines of code in a for loop

Insert Sort Descending Order: change > (greater than) to < (less than)

Select Sort: change arr[min] > arr[x] to arr[min] > arr[y]

Reverse Array: 1. change arr[len - 1] to arr[len - i - 1] 2. remove len += 1 at the end of the loop

Manchester Array: 1. change result=(a[i]==a[i-1]) to result=(a[i]!=a[i-1]) 2. same for ret[0]

Check Grades: change both of || to &&

Replace Even/Odd Values: i <= len and j <= len change into < 6

vowelsString: while循环i++放外面, 最后的返回判断len % 2改成len / 2

appearsKTime: while loop之后return之前加上if (count == k) {res = element;}

checkArmstrong: Math.pow()里的result改成remainder

countA: c=='A' && c=='a'中的 && 改成 ||

sumDistinct: 把sort提前

labelProduct: while循环中加入的顺序反了, str = productID.charAt(i) + str 或者 int i = productID.length()-1, while i >=0, i--

medianValue: else后面arr[i] = arr2[i-size]

countElementRange: || 改成 &&

getDigitSumParity: 1. 返回的判断条件写的都不对 0/1颠倒; 2. getSum里面temp = 的顺序提前

Reasoning

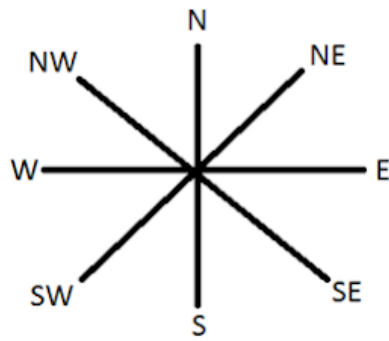
字母对照表

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

Prime number

	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			

方向



Pattern Search

I. Implication

加減

奇偶加減

JOHN:LSNV -> MARK:? OEXS (+2 +4 +6 +8 on each)

EAGLE:FZHKF -> THANKS:? UGBMLR (+1 on even index, -1 on odd index)

A17R:D12P -> G7N:? J2L (First Letter in each unit: A + 3 = D, D + 3 = G, G + 3 = J; The number in middle drops by 5; Last letter in each unit: A + 17 = R, D + 12 = P, G + 7 = N -> J + 2 = L)

字母换位

ADBC:EHFG -> ILJK:? MPNO (4 letters in a row and order goes like 1423)

COMPUTER:PMOCRETU -> TELEVISION:? VELETNOISI (reverse left half and right half)

数字根据字母加

AD5:ED9 -> XY? 49 (? is sum of XY)

II. 排除

固定字母差 不是元音开头 奇偶个数 数字总和、差

III. Induction

2,3,7,8,13,14,**20** (split by odd, even, difference 5, 6, 7 ...)

0,1,1,2,4,8,**16** (sum of all previous numbers)

3, 6, 18, 108, **1944** (multiply the two previous numbers)

1,1,4,2,13,3,40,4,**121** (split 1,2,3,4,...; 1,4,13,40,121 difference is 3^n)

3, 7, 13, 21, **31** (difference from previous number 4, 6, 8, 10, ...)

5, 11, 19, 29, **41** (difference from previous number 6, 8, 10, 12, ...)

0, 2, 6, 12, 20, **30** (difference from previous number 2, 4, 6, 8, ...)

5, 9, 16, 29, **54** ($5 * 2 - 1 = 9$, $9 * 2 - 2 = 16$, $16 * 2 - 3 = 29$, $29 * 2 - 4 = 54$)

4, 12, 6, 18, 12, 36, 30, **90** ($* 3, -6$)

1, 5, 7, **8** ($1 + \text{pow}(2,2) = 5$, $5 + \text{pow}(2,1) = 7$, $7 + \text{pow}(2, 0) = 8$)

D, H, L, **P** (same difference from previous)

10, 14, 23, 39, 64, **100** (differences are $2^2, 3^3, 4^4, 5^5, \dots$)

10, 74, 202, 394, **650** (differences are $64 * 1, 64 * 2, 64 * 3, 64 * 4, \dots$)

2, 8, 5, 6, 8, **4**, 11 (odd indexed number has a difference of -2)

16, 30, 46, 62, **83** ($13 + 3 = 16$, $29 + 1 = 30$, $43 + 3 = 46$, $61 + 1 = 62$, $79 + 3 = 82$; 13, 29, 43, 61, 79 are primes. Select 1 prime in every 3.)

1, 4, 27, 256, **3125** ($\text{pow}(n, n)$)

2, 5, 26, **677** ($1 + \text{square of previous number}$)

Logic

Appointing Distributor

Conditions for appointing a distributor, for petroleum gas throughout Georgia, are as follows. The applicant should:

1. Be an American by nationality
 2. Be in the age group of 21-50 years as on 5th September, 2008
 3. Be at least a high school graduate or any other recognized equivalent
 4. Be a resident of Georgia. He/she should have stayed in Georgia for not less than 5 years, immediately preceding the date of application
 5. Have a family income of not more than \$30,000 annually
 6. Not have dealership of any oil company
 7. Not have any close relative as a dealer/distributor of any oil company
- However,
8. Restrictions related to annual income would not be applicable to applicants working in corporations, owned or controlled by state departments. Such a case should be referred to the Managing Director
 9. For unemployed applicants who hold at least a bachelor's degree, conditions (6) and (7) may be waived
 10. If an applicant is from a rural district but is not a resident of Georgia, the case may be referred to the Chairman

William Trevino, who works in a public corporation owned by a state department, is an American by nationality. He is 23 years of age. He holds a bachelor's degree and has an annual income of \$35,000. He has been staying in Georgia for 7 years. Neither he nor any of his relatives works as a distributor or a dealer for any oil company.

1. He should be selected
 2. He should not be selected
- 3. Insufficient data**
4. The case should be referred to Managing Director
 5. The case should be referred to the Chairman.

Anna, a non-Georgia, American citizen, is a high school graduate with family income of \$20,000 per annum. Her date of birth is 15.03.1985. she does not have dealership of any oil company nor does she has any close relative as a dealer or a distributor. She lives in a rural district.

1. She should be selected
 2. She should not be selected
 3. Insufficient data
 4. The case should be referred to Managing Director
- 5. The case should be referred to the Chairman**

Delivery Charges

The following are the details of the procedure of deciding delivery charges for goods bought from ABC company. The customers:

1. are divided into two categories: those who have sales region code of 10 or above into one category and those with a code less than 10 into another
 2. must have bought goods worth \$500 or more in the previous month.
 3. must not have dealership of any other similar company.
 4. must not have availed bulk discount before
 5. must have been provided a special discount of 5% or less than that in the previous dealings
 6. must have been regularly ordering for more than 3 years
- however,
1. if the customer fulfills all the conditions except (2), and if the sales region code is less than 10, delivery charges of \$1- would be levied. Delivery charges of \$8 would be levied for a code more than 10
 2. if the candidate fulfills all the conditions except (3), and if the sales region code is less than 10, deliver charges of \$5 would be levied. Deliver charges of \$12 would be levied for a code more than 10.
 3. If the customer does not fulfill 2 or more of the conditions stated above, then he/she would have to pay delivery charges of \$30 irrespective of the sales region.

Jacob is a customer whose sales region code is 14. He had bought goods worth \$150 from ABC company in June. He does not have dealership of any other similar company. He has never been provided any bulk discount or special discount.

1. He need not pay any delivery charges

2. He would have to pay \$30 as delivery charges
3. has to pay \$10
4. has to pay \$8

5. data insufficient (no data for 6)

Emma is a customer whose sales region code is 08. She has been regularly ordering goods from ABC company for more than 4 years. She has also purchases goods worth \$150 in the previous month. She has never been provided with any bulk discount, but has been given a special discount of 2%. However, she has dealership of some other similar company.

1. She need not pay any deliver charges
- 2. She would have to pay \$30 as delivery charges**
3. She has to pay \$10
4. She has to pay \$12.
5. Data insufficient

Round Table

A round table sits 8 people A, B, C, D, E, F, G, H. F is two seats to the right of C. A and E sit by the sides of G. B and H are right facing each other.

Who is facing D? **G**

Which two people sit in front of each other? **D and G**

Who sits next to D? **C**

A and B is not adjacent. F is facing A. What is a possible counter clockwise sequence of people sitting at the table. **AHCDFBEG**

Multiple Choices

If northwest becomes east, northeast becomes south, and so on, what does southeast become?

West

Lily can't find her home, she is 25 yards southwest of her home, then she walked 20 yards toward north, where is her home from her now? **15 yards, east**

Facing north, Rufus walked 15 meters to the left. Then made an about-turn (turn behind) and walked 30 meters. Where is he now? **(-15, -30) from the original spot**

Jack walked 4 miles south-east, 8 miles west and then 4 miles northwest. Which direction he stands from the original spot? **West**

Facing North, Jack walked 20 miles to the left, 10 miles to the right and then 30 miles to the left. Which direction is he from the original spot? **West**

Jack walked 5 yards South, 4 yards West, 7 yards South, 4 yards East and then 5 yards North. Where is he from the original spot? **7 yards. South.**

66 people are in a 3-level building. The second level has more people than any of the other levels. It is known that one of the levels has 21 people in it and the second floor has 2 people more than the first floor. Question: How many people is in the second floor. **23 (21, 23, 22)**

A sister is N years younger than her brother. Brother was born 1988. What you can learn from the given information. **Age and year of birth of the sister's.**

Which two of the conditions tells the rank of Jack in the class.

1. 38 people are in the class; 2. 19 people rank behind Jack.

Which conditions tell which day Jack bought the car on.

1. $10/16 \leq \text{the day} < 10/19$; 2. $10/17 < \text{the day} < 10/20$

Would you be able to tell how many balls are on the table knowing that if 7 balls got taken there will be no less than 23 balls left, and if 6 balls got added there will be no more than 20 balls on the table. **No**

A - B denotes A plus B. A # B denotes A times B. A/B denotes A greater than or equal to B. A ? B denotes A less than B. Given expression: $(V \# X) / (V - X)$, $X ? Y$ and Z/Y , which of the two following expressions is true? 1. **$X < Z$ ($x < Y \leq Z$);** 2. $V + X < V * X$

Indian Company

It has been proven by research that in India, a company which purchases saturation radio advertising will get maximum brand recognition.

1. A high degree of brand recognition will help a company win a higher share of the market.

2. Radio has wide listenership and companies intending to increase their awareness, should advertise it.

3. For maximum brand recognition, a company need not spend on media channels other than radio publicizing

4. Brand recognition in India is more heavily dependent on where the brand advertises than the quality of its offering.

Fridge Sales

Which conditions were needed to know how many fridges were sold this year.

1. The number sold this year is 3 times of that of last year.

2. 40 were sold last year.

Environmental-friendly Enterprise

Decide whether to invite a company to Environmental Protection Conference.

The entrance bar:

1. have ECC Environmental Clearance Certificate

2. have at least 3 solar products

3. none of their products made from synthetic polymers

4. headquarter in Texas

5. have grade certified unit of its product

6. do not have legal dispute related to land or forest pending against them

Company 1: has two products and meets other conditions. no

Company 2: meets all conditions. Should get invited.

PM Hire

A company is hiring PM. Hiring bar:

1. have CS major undergraduate

2. have MBA degree

3. $GPA > 3.0$ undergraduate

4. Report to HR if a candidate has no MBA degree but has 5 years of work experience

5. Report to HR if a candidate was not majored in CS but has 3 years of CS experience

A candidate studies mechanical engineering in university. GPA 4.0. Did not go to MBA. Worked 5 years in Google as a mechanical engineer and 3 years as a software engineer. What to do with the candidate?

1. Hire

2. Dismiss

3. Insufficient conditions

4. Report to HR

Now have some additional hiring rules on candidates:

1. have master's degree. GPA must be A.

2. have 2 years or more work experience

3. if 1 is not met then report to director

A candidate has 3 years of work experience, majored in CS in university and has master's degree and MBA. His GPA undergraduate is A-. What to do with the candidate?

Report to director

Now again given more rules:

1. Master in commerce and at least B in GPA / have CPA, report to M director if this is not met
2. $25 > \text{Age} > 20$
3. Fluent in English and Spanish
4. Pay a \$125 deposit, report to chairman if this is not met
5. Promise to work 5 years for the company

Coordinators

There are four coordinators named Lily, Cathy, Mary and Nina. Each coordinator is at a different corner of the rectangle meeting hall. A coffee vending machine is situated at one of the corners and a restroom at another corner of the meeting hall. Lily and Cathy are at either sides of the white board, which is situated at the center of the side which is opposite to the side at whose corners the coffee vending machine and the restroom are located. Coordinator Mary is not at the corner where the restroom is located.

Which of the following cannot be true?

1. Lily is not on the side of the hall where the white board is placed
2. Nina is adjacent to the restroom at one corner
3. Cathy is at the corner, adjacent to the coffee vending machine.
4. Mary is adjacent to the coffee vending machine, at one corner of the hall

5. Lily is at the corner, adjacent to the coffee machine

which of the following pairs are at the diagonal corners?

1. Restroom and Nina
2. **Nina and Lily**
3. Mary and coffee vending machine
4. Cathy and Lily
5. Nina and Mary

Manufacturer

A manufacture company has 8 products and 4 divisions. Four divisions are lead by Alan, Betty, Cathy, Diana. The 8 products are: mixer, iron, water pump, geyser, juicer, blender, grinder, and heater. Each division produces 2 products, no 2 divisions produces the same product. Diana's division produced Geyser, Cathy's division produces water pump. Mixer and iron are produced by division lead by Alan and Betty respectively. The division that produces mixer doesn't produce blender.

Four questions:

1. if the division that produces mixer doesn't produce juicer, which of the following statement is true?
2. if Alan produces mixer and heater, what does Betty produce. **iron**
4. if the division that produces mixer also produces juicer, how many ways are there for product pairs? **$3! = 6$**

Sales Planning

Sales drives in big organizations, many a times, fall flat on the face. A research showed that an average buyer remembers only 20% of the things discussed during a sales call. The saddest part is that the sales team doesn't get to choose what those 20% of things would be. The world today is cluttered with information and thus it is essential that the sales team represents their product/service in the best possible manner. It is like answering questions that children ask. Expect and out of context questions and reply to each one of them, patiently, in a way that the customers understand the intricacies. You can use technical terms to explain your product and its features. No doubt, it will be an accurate methodology but certainly not the right one. Simplify your message and see how well your client remembers you and your presentation when you meet him to finally close the deal.

1. A regular buyer would remember more than 20% of the details after a sales meeting
2. A customer is as gullible as a child and hence may ask many questions.
3. **A better sales person would be the one who is able to explain the features of his/her product in a simple manner.**
4. If you simplify your message, the customer would remember your entire presentation.

Developer Recruit

An IT company has decided to recruit software developers. Conditions for selections of a candidate are as follows:

1. Should have at least a bachelor's degree in engineering
2. Should have scored at least 60% marks in his/her bachelor's degree and 80% marks in 12th grade.
3. Must have at least 1 year's work experience
4. Should be willing to sign a bond of 2 years
5. Should not be more than 28 years and not less than 21 years of age as on 01.02.2012

However,

1. Candidates who fulfill all conditions except (1), but have obtained 75% in their bachelor's degree (any computer applications degree like BCA) and have at least 3 years of work experience, may be referred to the Director
2. Who fulfill all conditions except (4), but are willing to pay an amount of \$1000 as security deposit should be referred to the President
3. Who fulfill all conditions except (3), but are IT engineers may be referred to Deputy General Manager.

Alexander is an IT engineer with 65% marks in his bachelor's degree and 88% marks in 12th grade. He completed his bachelor's degree in engineer, in 2007 and immediately started working in a private firm. He is not ready to sign a bond but doesn't mind paying a sum of \$1000 as security deposit. He was 26 years old as on 01.01.2012.

1. He should not be recruited
2. He should be recruited
- 3. He should be referred to the President**
4. He should be referred to the Deputy General Manager
5. Data insufficient

Ionization Energy

Ionization energy decreases with the increasing size of metal atom. Out of cesium, lithium, potassium and sodium, which will have the lowest ionization energy?

Statements: I) Lithium has the smallest size. II) The size of potassium and cesium is greater than that of lithium.

1. I alone is sufficient for answering the problem question
2. II alone is sufficient for answering the problem question
3. Both together are sufficient for answering the problem question
- 4. Both together are not sufficient for answering the problem question**
5. Either of statement is sufficient for answering the problem question

年龄问题

推断一个人的年龄 (1)知道所有人的平均年龄 (2)所有人年龄都一样, 问(1)和(2)怎么来推断这个人的年龄

所有人年龄一样, 就是平均年龄

妹妹比哥哥小5岁(或其他数字), 哥哥1988年, 判断能计算什么(妹妹的年龄, 妹妹的出生年)

求日期

生日在9月19~25, leap year, 判断能否能计算出生日 ????? (29, common year 28)

说我生日在二月和十月之间, 在四月和八月之间, (都是non-inclusive), 你猜猜我生日到底几月啊

On what date was the car purchased by Lily?

Statement:

- I) certainly before 19 October, 2009 but definitely not before 16 October, 2009
 - II) certainly after 17 October, 2009 but not later than 20 October, 2009.
- Waral
- A) I alone is sufficient for answering the question. From 1point 3acres bbs
 - B) II alone is sufficient for answering the question
 - C) Both together are sufficient for answering the question (18th, Oct)**
 - D) Both together are not sufficient for answering the question

E)Either is sufficient for answering the question

排名问题

给两个条件： I. 班级总人数38， II 比小王分数低的有19人选 (结合I,II两个条件可以决定小王在班级的排名)

球堆问题

是桌上一堆球，取掉7个不少于23个， 加上6个不多于20个，问能否推断桌上几个球 (不能，不成立)

兴趣小组

假设人们可以有3种兴趣，且每人至少有一个

I. 135个人中，只有5个人有3种兴趣，有100个人有1种兴趣.

II. 400个人中，有35个人至少有2种兴趣

问，是否能得出exactly 2个兴趣的人数

只有I能得出

今年生日

说小红this year的birthday是which day? .

I. It's on May 26th, May 27th being Wednesday.

II. It's not on Monday.

I only is sufficient.

妹妹年龄

问妹妹今年多大啦?

I.妹妹比哥哥小xx岁

II.哥哥比妈妈小yy岁，妈妈zz年生的

I, II 加一起可以得出

科幻小说

有个fiction网站，是用来给科幻小说的读者来yy接下来桥段的，读者可以自己在上面续写科幻小说。比如哈利波特，如果哈利最开始没加入格兰芬多加入斯莱特林了呢？如果哈利没和好人做朋友而是成为马尔福集团的一份子了呢？etc. 那么接下来剧情咋发展呢？有的作者觉得这个网站挺好的，因为可以受到启发，或者看看读者希望剧情如何发展。有的作者觉得这网站挺破的，因为你自己写故事为毛不自己新开一个坑写呢？而且还会干扰我思路。

1. 读科幻小说可以增加想象力。
2. 这个网站有好有坏。
3. 网站上的同人使得原作黯然失色。
4. 作者们都反对这个网站。

气候与糖价

说由于气候和糖的种植者积极性（因为糖价低，大家不爱种）的原因，很多人都去选择种jute了。最近四年糖价回升，并与jute价格持平了。问能推出什么：

a. 糖农会回来继续种糖

b. 糖价会继续攀升

其他两个答案肯定不对，不记得了。

这题我选的是糖农会回来种糖。后来发现应该是糖价继续攀升。因为跟jute同价格的话，不会吸引糖农回来，只有糖价高于jute之后，糖农才会回来。

电子邮件

现在员工都喜欢查看和及时回复email，说是上班时候也喜欢是不是看手机，这种行为影响了deadline, process啥的， **email has an adverse affect on performance**

motor效应

说小孩和大人学习，会cooking，针线活什么的，叫做motor效应？实习精准的肌肉永远。简直完美~~~ 然后5个判断，选正确的。我选的是**ride a biking也是motor**

真人秀

真人秀 (答案： 参加的人通过做bizarre的事情得到钱)

电视剧

电视剧制作人总弄一种套路： 一个美女，一个 traditional女（长相平庸之类的），争一个帅哥（hero），套路都是帅哥先跟美女好，后来发现美女没有心灵美，traditional女有，后来就跟t女好了结婚了。 因为creator知道masses大众喜欢story有complexity并且能challenge一下happy ending的套路。选项全忘了。

恩爱生活

一男的周末喜欢在图书馆看书上网 他女票喜欢看 travel drama 然后它们都爱运动 所以它们会一起去健身房， 晚上回来路上买蔬菜水果， 女的做饭男的在自己的library看书。 我选的选项是**男的有一定数量的藏书**。

顾客所想

顾客不是很容易被操作，因为他们很清楚的知道别人跟他们想的不一样的。商店并不能get到顾客真正想要的

课程表

排课表：有物理，化学，生物，然后有一些要求，问你能从哪些条件得出化学课排在哪一位，我选的是两个条件都要

UFO

一个是讲ufo的，很多目击ufo的照片啥的都证明是假的，所以很多人说ufo不存在，但很多科学家认为不能否认不存在，选项是**虽然有些照片是假的,但不能说明ufo不存在**。

星球疑云

科学家在Z星球发现了干涸的河床！科学家推断（speculate），当时Z星球上存在累死地球的，atmosphere，absorb heat from sun，然后星球上发生了一次可以把atmosphere taken away的事件，使星球变成了vacuum状态，annihilating life.

问这些可以infer to: 我选的**atmosphere 是support life的必要前提条件**。

外星人

有一道有关外星人的题目，大致是有很多人声称见到过飞碟和外星人，有人甚至拍了照片，但有很多照片被证明是自然现象或是飞机卫星，最后说也有很多其他证据说明外星人的存在。（我选的是最后一个，尽管有很多照片被证明是假的，但也不能否定外星人存在的可能性

炒鱿鱼

Saira一直都是受同事们敬仰的一位好员工直到她因为bipolar综合征带来的问题需要休假一段时间。不久后她就被炒鱿鱼了公司给出的理由是她的病情导致她工作效率低下并且会无意识地冒犯上级(bipolar综合征的症状之一就是在无意识的情况下说各种话说个不停)。而最终法院裁定Saira被炒鱿鱼是因为公司相信了关于这种病的种种(就是歧视)。问哪个选项是对的？(选 **Saira被炒鱿鱼不是因为她自己有错**)

作家和配图

作家和网上配图什么的关系。我选的是：这种行为对作家有好处也有坏处。

出差问题

Candidates for this business traversal are M1, M2, M3, M4, M5 and W1, W2, W3 (5 men and 3 women). The travel demands at least 3 men and 1 woman. M1 and M3 cannot go on the same trip. M4 and W2 cannot go on the same trip.

第一问If it's been decided to send M2, M3 and W2 on this trip, who else you may send with them? (至少三男一女则M1和M4都不可能，所以M5, W1/W3)

第二问问如果M1 M2去了，还可以派谁。(M5W2W1W3, M4W1W3, M5M4W1W3)

第三问如果去了四个男生，那么谁不能选。(W2,因为M1和M3不能共存，则M4一定在，则W2不能在)

圆桌问题

类型：

AGE B CDF H, AE可互换, BH可互换.

一圆桌坐八人ABCDEFGH. F在C右边两位,AE坐G两边, BH面对面:

· 问D对面是谁? G

· 以下哪两人坐对面? D&G

· 谁坐D旁边? C

· AB不坐隔壁, F对面坐A, 反时针方向可能的坐法? EGA H CDF B

A, B, C, D, E, F, G, H are sitting around a round table. 'F' is two places to the right of 'C'. 'A' and 'E' are on either side of 'G'. 'B' and 'H' are opposite to each other. 'C' is facing north.

Q1 Who is sitting opposite to 'D' ? G

Q2 以下哪两人坐对面? D&G.

Q3 谁坐D旁边? C.

Q4 which of the following arrangements (in anti-clockwise) is possible?

A AGEBD CFH

B AGEBCDHF

C AGEBCDFH

D ABFDCHEG

团团坐，排排坐问题

6人团团坐问题，有六个人 G A S M N R，注意理解 G, A, S 两两不能对坐，所以总体来说分两种情况，GAS三人间隔而坐，或者GAS全都挨着坐。所有团团做的问题都围绕此基础展开。有

Q1. If R 在A S 中间，问你R对面是谁(G)。

Q2. if G左右是A R,问A 对面是谁(M or N)。

Q3. if NAR 连着坐， M两边是谁(S & G)。

Q4. if NAR 连着坐， A对面是谁 (M)

说甲乙丙丁排排坐，甲在乙右边，丙在丁右边，能不能推断粗谁最右。(不能)

七房间排序问题：

有PQRSTUV7个房子，UP不能在2端，V在中间3个房子中的一个，TQ相邻，VR之间有2个，其中有一个是Q，QR不相邻，推测出位置就做起来，基于此题有4个问题。

VR之间有两个，Q在其中，TQ相邻，推出 VQTR，要注意取反，或者 RTQV

V是中间三个房子中一个，决定了V一定在最中间，

又UP不能在两端，有一端必定是S。

S(UP)VQTR, RTQV(UP)S 注意：UP可以互换

比身高

有四个人R M K G，哪个人最高？给了两个条件：

1. M 比G高，但是M比R矮

2. K比M高 ——> 这两个条件加起来也得不出来

电商网站

Buyme和INXsell两个卖东西的网站。区别是Buyme允许买卖二手。人们可以在上面卖book, bike, treadmill. 卖家设最低价，买家竞价，最后标得最高价的人必须买下，否则可以采取司法程序处理。但Buyme对于拍卖的物品没有保障。INXsell可以直接从生产商购买产品。

E. 竞得最高价的人必须要买下商品

公司分配住宿

1至少10年在公司工作其中至少4年是manager

2包括自己在内family人数不能超过5人

3以58岁为退休年龄至少还要工作5年才能退休

4没有自己的house

5不能住在配偶mate spouse的house里

6如果仅不满足1而且还是manager 的话上报给Finance Director

7如果仅不满足3而且还是senior manager的话上报给Manager Director

8如果是从外地搬来的可以不满足条件1

想要获得promotion，给出以下10个条件：

1. 至少工作5年
2. 至少获得学士学位
3. 写作成绩不低于60
4. Group discussion成绩不低于65
5. Interview成绩不低于 60
6. 无犯罪记录
7. 年龄在30~45岁之间

8. 学术大于60.
9. 如果不满足3, 而且group discussion成绩不低于75, interview不低于70, 上报给general manager.
10. 如果不满足8, 上报给executive director