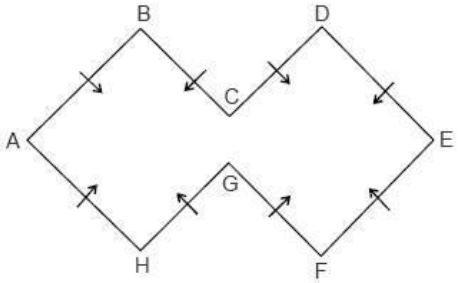
MATRIX ARRANGEMENT

P, Q, R, S, T, U, V and W are sitting around a uniquely-shaped table as shown below, all facing inwards. The persons sitting along edges AB & GH, HA & BC, CD & EF and DE & FG are said to be facing each other. The persons sitting along edges HA & FG, GH & EF, DE & BC and AB & CD are said to be facing in the same direction.



The following information is also known.

- V is sitting to the immediate left of S.
- W is two places to the right of T.
- R and W are facing each other.
- V and T are facing each other.
- U and Q are facing the same direction.
- P and Q are facing opposite directions.
- U and S are facing each other.

Eight persons A, B, C, D, E, F, G and H sit in a row. Some face north and the remaining face south. The following information is known about them.
i. D sits third to the left of E, neither of them sit at any end.
ii. Two persons sit between E and H.
iii. B sits to the immediate left of H and both of them face the same direction.
iv. A sits second to the left of G, both of them face different directions.
v. C is not adjacent to D, but C and D face the same direction as G. vi. F sits second to the right of C and faces north.
vi. F sits second to the right of C and faces North.
vii. B and F are not adjacent to each other.
viii. No three persons sitting in consecutive positions face the same direction.

Q1. What is the respective ratio of the persons who are facing north to the number of persons who are facing south?
a. 5 : 3 b. 1 : 1
c. 3 : 5 d. Cannot be determined

Q2. How many persons sit between B and F?
a. Three b. Two
c. One d. Four

Q3. Which of the following statements is true?
a. H and G face the same direction.
b. D and F face different directions.
c. H and G sit at the ends.
d. B and E face north.

SET-1

Three ladies and four men are a group of friends, ie R, M, T, S, L, W and Z. Each one has a different profession, ie Lawyer, Travel Agent, Air-hostess, Doctor, Professor, Consultant and Jeweller and each one owns a different car, ie Alto, Corolla, Santro, Lancer, Ikon, Scorpio and Esteem, not necessarily in that order. None of the ladies is a Consultant or a Lawyer. T is an Air-hostess and she owns an Ikon car. R owns a Scorpio. M is not a Doctor. L is a Jeweller and he owns Corolla. W is a Lawyer and does not own Alto. Z is a Consultant and owns Santro. The Doctor owns Esteem car whereas the Professor owns Scorpio. The Travel Agent owns an Alto. None of the ladies own a Scorpio.

Q1. What car does S own?
1) Alto 2) Santro 3) Lancer 4) Esteem

Q2. Who owns the car Lancer?
1) Z 2) M 3) W 4) Data Inadequate

Q3. What is the profession of R?
1) Professor 2) Travel Agent 3) Doctor 4) Data inadequate

SET-2

Seven people N, K, T, B, M, W and R have their weekly offs on different days of the week, ie Sunday, Monday, Tuesday, Wednesday, Thursday, Friday and Saturday, not necessarily in that order. Each of them has a liking for different cuisine, ie Indian, Italian, Mexican, Chinese, Spanish, Continental and Thai, not necessarily in that order. K likes Thai food and gets his weekly off on Thursday. B likes Italian food and does not have off on Sunday. M has weekly off on Saturday and R has his weekly off on Tuesday. W likes continental food whereas the one who has weekly off on Monday likes Mexican cuisine. T does not like Spanish cuisine and has weekly off on Wednesday. The one who likes Indian food does not have a weekly off on Tuesday or Wednesday.

Q1. Who has a weekly off on Friday?
1) T 2) R 3) W 4) None of these

Q2. What cuisine does R like?
1) Continental 2) Indian 3) Italian 4) Spanish

Q3. On which day does N have weekly off?
1) Tuesday 2) Friday 3) Monday 4) Sunday

SET-3

(I) P, Q, R, S and T finished a work, working from Monday to Saturday, one of the days being a holiday, each working overtime only on one of the days.
(ii) R or T did not work overtime on the first day.
(iii) Q worked overtime the next day after the holiday.
(iv) The overtime work done on the previous day of the holiday was by R.
(v) There was a two days' gap between the days on which P and Q worked over time.
(vi) P worked overtime the next day of the overtime day of S.

Q1. Which of the following is the correct statement ?
1) P worked overtime last among them.
2) P worked overtime earlier than S.
3) The holiday was on Friday.
4) S worked overtime earlier than Q.

Q2. On which day did R work overtime?
1) Monday 2) Tuesday 3) Thursday 4) None of these

Q3. How many days' gap was there between the days on which P and T worked overtime?
1) Three 2) Two 3) One 4) Cannot be determined

SET-4

P, Q, R, S, T, V, W and Z are eight friends studying in three different engineering colleges - A, B and C in three disciplines - Mechanical, Electrical and Electronics with not less than two and not more than three in any college. Not more than three of them study in any of the three disciplines. W studies Electrical in college B with only T, who studies Mechanical. P and Z do not study in college C and study in the same discipline but not Electrical. R studies Mechanical in college C with V, who studies Electrical. S studies Mechanical and does not study in the same college where R studies. Q does not study Electronics.

Q1. Which of the following combinations of college-student-specialization is correct?
1) C-R-Electronics 2) A-Z-Electrical 3) B-W-Electronics 4) B-W-Electrical

Q2. In which of the following colleges do two students study in Electrical discipline?
1) A only 2) B only 3) C only 4) Cannot be determined

Q3. In which discipline does Q study?
1) Electrical 2) Mechanical 3) Electrical or Mechanical 4) Data inadequate

SET-5

Sharma Jee wants to buy a book and is confused between four novels of different genres - mystery, horror, comedy and thriller. The novels are written by Lalu, Monu, Nonu and Ovattio and published by Purshottam, Quattchori, Rajveer and Sarkar, not necessarily in the same order. The horror novel is published by Quattchori and the thriller novel is written by Nonu. Each novel is written by a different author and published by a different publisher. It is also known that Lalu and Monu get their books published by Purshottam or Quattchori only.

Q1. If the mystery novel is written by Ovattio then who can be the publisher of the comedy novel?
(a) Purshottam or Quattchori (b) Only Purshottam
(c) Purshottam or Rajveer (d) Purshottam or Rajveer or Sarkar

Q2. How many combinations of publisher and author are possible for the mystery novel?
(a) 6 (b) 3 (c) 4 (d) 5

CHALLENGER SET - 1

Six school friends, Aarati, Divya, Gayatri, Ila, Janaki and Seema decide to meet-up at a coffee shop near their school. All six of them have pursued 6 different professions(Dentist, Doctor, Engineer, IAS, Interior Designer, Lawyer) and settled in different cities (Bangalore, Chennai, Hyderabad, Kolkata, Mumbai, Pune). We know the following about the get together

1. Aarti who lives in pune came in just after janaki.
2. Seema who is a lawyer and does not stay in mumbai reached the coffee shop just before the dentist.
3. The doctor arrived last.
4. The woman who lives in mumbai arrived first at the coffee shop.
5. Divya lives in chennai.
6. Ila came in just after the IAS and just before the doctor.

Q1. What is the profession of the person who arrived third to the coffee shop?

Q2. Based on the information given above, we know the professions of how many women?

Q3. How many person -city pairs do we know?

Q4. If Ila is an interior designer, what is gayatri's profession?

Q5. If Ila is not from Hyderabad, how many different combinations of person - Profession - Place are possible?

CHALLENGER SET - 2

Seven friends - A, B, C, D, E, F & G - work in seven different professions - Teacher, Lawyer, Engineer, Contractor, Trader & Scientist. Each of these friends reach their offices at a different time - 6 AM, 7 AM, 8 AM, 9 AM, 10 AM, 11 AM and 12 PM. A surveyor made a note of the jobs of the seven friends and the times at which they reach office. According to him, Teacher reaches his office at 10 am, lawyer reaches his office at 12:00 PM, Doctor reaches his office at 9:00 AM, Engineer reaches his office at 6:00 AM, contractor reaches his office at 11:00 AM, trader reaches his office at 8:00 AM and Scientist reaches his office at 7:00 AM. Of these, the timings for at most four people are wrong.

Some more information is known to us(True statements)

1. E doesn't reach his office at 7:00 AM
2. A is a lawyer.
3. B is an engineer.
4. C is a contractor and his details are correctly taken by the surveyor.
5. F, who is a trader, reaches office at 10:00 AM.
6. A did not reach his office at 12:00 PM.
7. The details of D are correctly taken by the surveyor.
8. E is a scientist.

Q1. Who reaches office at 9:00 AM?

a. B b. D c. E d. A

Q2. For how many people the details are wrong?

a. 2 b. 3 c. 4 d. Cannot be determined

Q3. If E reaches her office at 8:00 AM, who would reach his/her office at 7:00 AM?

a. A b, B c. D d. G

Q4. Which of the following is definitely false?

a. The lawyer reached his office at 7:00 AM

b. The scientist reached his office at 12:00 PM

c. Gopi reached at 8:00 AM d. Dubey reached at 6:00 AM

CHALLENGER SET - 3

Six friends A, B, C, D, E & F participated in six different sporting events in the national games - 100m, 200m, 400m, High jump, Long jump & Javelin, not in any order. Each of them received a different position in the events ranging from first to sixth.

The following information about their events and positions is known:

1. Neither C not A came in the top 3 positions in the event they participated.
2. F came sixth in the event he participated and E did not participate in the 400m race.
3. The friends who participated in the high jump and javelin throw event came within the first five positions in the event.
4. The person who participated in the 400m race came first in the event.
5. B participated in the long jump and the person who participated in the 200m came second in the event.

Q1. At what position did D finish in his event?

Q2. Which event did the person who finished sixth participate in?

Q3. If C participated in high jump, in which position did A finish in his event?

Q4. Who occupied the second position in his respective event?

CHALLENGER SET - 4

Six friends - P, Q, R, S, T & U - have certain number of apples and bananas. The number of apples with each of the friends is distinct and the number of bananas with each of the friends is distinct. Further:

1. The number of apples with each of the friends are 1, 3, 6, 10, 15 and 21 in any order.
2. The person who has the second least number of apples has the sixth least number of bananas.
3. U has the fourth least number of apples.
4. The person who has the fourth least number of apples has the fifth highest number of bananas.
5. S has more apples than T.
6. The number of Bananas with each of the friends are 3, 6, 10, 15, 21 & 28 in any order.
7. T has more apples than R and U has more bananas than R.
8. R has more apples than Q.
9. Q has fourth highest number of bananas.
10. If the friends are ranked according to the number of apples they have and the number of bananas they have, no person has the same rank in both the parameters.

*If your answer is CBD then type in “0”+

Q1. How many bananas does P have?

Q2. What is the sum of apples and bananas with T?

Q3. Who has the highest number of apples?

Q4. Who has the highest total number of fruits?