Input related questions were first appeared in Bank P.O. Examinations in the year 1995 and since then questions on Input are being asked regularly in almost all the Bank P.O. Examinations. In this type of questions, a given input line of words or numbers or words and numbers is organised step-by-step following a specific rule to arrive at the final step. In order to solve questions based on Input, you must find out the rule of arrangement of words or numbers or words and numbers. Once you get the idea about the rule of arrangement of words or numbers you can solve the given set of questions very quickly. In order to get an idea about the rule of arrangement of words or numbers you must study the given Illustration carefully. You should observe the change in order of words or numbers in each step sequentially to specify the rule of arrangement of words or numbers.

Generally, each set of questions on Input remains based on a particular rule. The different sets of questions involve different rules of arrangement of words or numbers. However, the most common type of questions on Input involves arrangement of words as per dictionary or in alphabetical order or arrangement of numbers in ascending or descending order. Generally, one word or number is arranged in every step and the procedure is continued until all the words or numbers get arranged according to the specific rule. In another type of questions on Input, the positions of words are interchanged according to a specific rule. In similar way, you may derive innumerable ways of rearrangement of input line of words or numbers.

The questions based on input line of words or numbers tend to judge how quickly you can recognize the rule applied in the arrangement of given input line of words or numbers cited as illustration. Once you recognize the rule of arrangement, questions on Input become very easy and you can solve given set of questions quickly and correctly. Thus, your main task is to recognize the rule of arrangement.

We have already mentioned that there may be several ways of arrangement of words or numbers and each set of questions follows a particular rule of arrangement and hence, it is not possible to enlist all the probable rules of arrangement. However, you may acquire proficiency in this type of questions through sufficient practice.

SOME IMPORTANT TIPS

(i) First of all, observe the given input line of words or numbers and the last step of rearrangement so that you may get an idea about the changes effected in various steps of rearrangement.

(ii) In order to know what changes have been effected in each step, observe two consecutive steps carefully.

(iii) Now, correlate the input, the last step and any one of the middle steps. This will enable you to identify the rule of arrangement.

While attempting questions on Input, first of all mark all the words or numbers serially from left to right according to their position in the given input line of words or numbers. Afterwards, write the number of each word accordingly in each step of arrangement. By doing so, you can observe the change effected in each step very quickly. Also, this will enable you to write the required step straight forward rather than writing successive steps. In order to comprehend these facts, study the examples given below :

Directions (1-3) : Study the following information carefully to answer the questions given below :

A word arrangement machine when given an input line of words, rearranges them following a particular rule in each step. The following is an illustration of input and the step of rearrangement.

Input:
help took he her from in time also.

Step I:
also took he her from in time help

Step II:
also time he her from in took help

Step IV:
also time in from her he took help

(And, the Step IV is the last step for this input)

As per the rule followed in the above Steps, find out the given questions, the appropriate step for the given input.

Ex.1. If the step III of an input is "girl you look at shy away as stare"
What will be definitely the input?
(1) you look at as girl shy stare away
(2) as stare you girl look at shy away
(3) stare as away at shy look you girl
(4) look shy girl away stare as you at
(5) None of these

Ex.2. Input: care my for wife and child not special
Which of the following will be the second step for this input?
(1) my wife and child special care not for
(2) special not for wife and child my care
(3) not special for wife and child my care
(4) not special my care for wife and child
(5) None of these

Ex.3. Input: now she go long for mile walk also.
Which of the following would be the appropriate step for "also walk mile long for go she now"?
(D) Step I (2) Step II
(3) Step III (4) Cannot be determined
(5) None of these
EXPLANATIONS

(1-3) : Carefully analysis of the illustration makes it clear that in the final step all the words have been arranged in the reverse order with reference to the given input. If we observe two consecutive Steps it may be noticed that one pair of words is arranged in one step. The order of rearrangement can be shown as follows:

Input: 1 2 3 4 5 6 7 8
help took he her from in time also
Step I: 8 2 3 4 5 6 7 1
also took he her from in time help
Step II: 8 7 3 4 5 6 2 1
also time he her from in took help
Step III: 8 7 6 4 5 3 2 1
also time in her from he took help
Step IV: 8 7 6 5 4 3 2 1
also time in from her he took help

Step IV is the final step in which all the words have been written in reverse order.

Now you can write any of the required Steps or even input if input or any step is given without going through the cuber-some exercise of rearranging step-by-step.

After analysing each step we find that in the first step, the first and the last words have been interchanged. In the second step, the second and the seventh words have been interchanged. In the third step, the third and the sixth words have been interchanged and in the fourth and final step, the fourth and the fifth words have been interchanged.

Generalisation of the rule:

In each step the corresponding words from left and right ends have been interchanged. In other words, the first word from left and the first word from right have been interchanged in the first step.

1.(3)
Step III: 8 7 6 4 5 3 2 1
girl you look at shy away as share
Therefore,
Input: 1 2 3 4 5 6 7 1 8
stare as away at shy look you girl
2.(2)
Input: 1 2 3 4 5 6 7 8
care my for wife and child not special
Step I: 8 7 3 4 5 6 2 1
special not for wife and child my care
Thus, we can write step II directly.

The same Principle is followed in questions on PASSWORD. But here you are required to ascertain the Password in only one step directly from the input line of words.

Password is generated by rearranging the words of input line. Such questions tend to judge how quickly you can recognise the rule applied in arriving at the password from the given input line of words. Once you recognise the rule, such questions become very easy. Thus, you main task is to recognise the rule of arrangement of words.

Now consider the following examples:

Ex.1. A password is given to the factory Supervisor and it is changed for the next Supervisor. If the password for the first Supervisor is "day you last at but for". It is changed to "last you at day for but" for the second Supervisor and the password is changed similarly for the next Supervisor. What will be the password for the third Supervisor?

(1) at day you last but for
(2) at you day but last for
(3) at you day last but for
(4) at last you day but for
(5) None of these

Answer: (3)

Password for the first Supervisor
day you last at but for
1 2 3 4 5 6
Password for the second Supervisor
last you at day for but
1 2 3 4 5 6
Therefore, the code for the third Supervisor will be:

1 2 3 4 5 6
at you last but for

Ex.2. If the sentence "I go for walk in the morning" is coded to make a password as "for in morning go I walk the," how will the sentence "teacher is expert in teaching her subject" be coded to make a password in the same way?

(1) teaching subject expert is teacher in her
(2) expert teaching subject is teacher in her
(3) expert teaching subject is teacher in her
(4) teaching expert subject is teacher in her
(5) None of these
Answer : (3)
Keyword:  1  2  3  4  5  6
        start early to reach in Time
Password:  4  2  5  1  3  6
        reach early in Start to time

Similarly,
Keyword:  1  2  3  4  5  6
        watch with care but not stare
Password:  4  2  5  1  3  6
        but with not watch care stare

In the password the first and the fourth words and the third and the fifth words have been interchanged.

Ex. 9. A password is given to the Intelligence Officer for entering into Army Headquartess and it is changed for the next Intelligence Officer. It the password for the first Intelligence Officer is "are of figures there sets two", it is changed to "there are two sets of figures" for the second Intelligence Officer and the password is changed similarly for the next Intelligence Officer. What will be the password for the third Intelligence Officer?

(1) figures two sets of there are
(2) sets there figures of are two
(3) there figures of sets two are
(4) two figures there are of sets
(5) None of these

Answer : (2)

Password for the first Intelligence Officer
1  2  3  4  5  6
are of figures there sets two

Passwords for the second Intelligence Officer
there are two sets of figures
4  1  6  5  2  3

Password for the third Intelligence Officer
4  1  6  5  2  3
sets there figures of are two

Ex. 10. In a factory each Supervisor has a slogan which is coded to convert into a password. Rambha's slogan "not that large is stock remaining" is coded as "that remaining stock is not large". If Asha's solgan is "remark an opinion spoken on giving", what will be her coded password?

(1) on spoken remark an giving opinion
(2) opinion spoken remark on an giving
(3) giving opinion spoken remark on an
(4) an giving on spoken remark opinion
(5) None of these

Answer : (4)
Rambha's slogan
1  2  3  4  5  6
not that large is stock remaining
Password
2  6  5  4  1  3
that remaining stock is not large

Similarly, Asha's slogan
1  2  3  4  5  6
remark an opinion spoken on giving
Password
2  6  5  4  1  3
an giving on spoken remark opinion

To be continued
I go for walk in the morning. Password for in moming go.

Similarly, Sentence:

Teacher is expert in teaching her subject. Password: expert teaching subject is teacher in her.

Ex.3. In a factory each Supervisor has a slogan which is coded to convert into a password. Ashutoshs slogan "hard work is the best Solution" is coded as "is best hard the work Solution". If Amit's solgan is "honest work is always appropriately rewarded" what will be his coded password?

(1) is appropriately honest rewarded always work
(2) is appropriately honest always work rewarded
(3) is honestly appropriately always work rewarded
(4) is work appropriately always honest rewarded
(5) None of these

Answer : (3)

Ex.4. A word arrangement machine delivers the password, "big a there below is" when the input line of words is "there is a big below". If the password is "key success to the master", what would be definitely the input?

(1) success to key the master
(2) to master success the key
(3) the master key to success
(4) to the success master
(5) None of these

Answer : (2)

Ex.5. If "tom kan sad pun ret one" is the password for an input "sad ret one kan put tom", what will be the input for the password "joy pilk sim tap nis rib"?

(1) pilk joy tap sim rib nis (2) sim tap pilk joy nis rib (3) nis tap sim joy pilk tap (4) sim nis rib pilk tap joy (5) None of these

Answer : (4)

Ex.6. If "good shape never found original" is the password for the input line of the words "original good shape never found", what will be the password for the input line of words "the fear of final exam"?

(1) the fear final of exam (2) fear the of final exam (3) fear of final exam the (4) final exam of the fear (5) None of these

Answer : (3)

Ex.7. If the password is "green big see pots plants with" for the keyword "see big pots with green plants", what will be the password for the keyword "good old Santa is in distress"?

(1) Santa good is old in distress (2) in old good Santa distress is (3) good distress old in Santa is (4) is good old Santa in distress (5) None of these

Answer : (2)