

PROGRAMMING EXAM
10-11. CLASS

1- A is a two dimensional array (NxN) . In this Array two numbers are equal. Write a program which can find index of these numbers

2- A and K are integers and positive numbers. Solve A^K problem without using A.A.A.A. and EXP

K time

3- Write a program which given below solution

3BISHKEK	→ BISHKEKBISHKEKBISHKEK
2COMP	→COMPCOMP
1TEST	→TEST
2.5COMPUTER	→COMPUTERCOMPUTERCOMP

4- Fraction Sort

A fraction is the quotient of two integers M/N. A pair of integers 2,3 can be used to represent the fraction 2/3. Consider the set of fractions 1/2 , 3/4 , 1/3 , 23/28 , 2/9
The set of fraction written in ascending order would appear as follows ;

2/9
1/3
1/2
3/4
23/28

Write a program that will sort and print any set of fractions in increasing order. You can assume the numerators and denominators do not exceed 99 and there are less than 100 fractions in any set

5- Justifying text

Write a program that will accept a sentence of text in any convenient way and print out the sentence in a column 20 characters wide. Words at the end of a line that would lengthen the line beyond 20 characters must be moved to the next line. Spaces must be added between words so that each line except the last is exactly 20 characters wide. This is called “Justifying text ” Test your program by entering the sentence:

“A great discovery solves a great problem but there is a grain of discovery in the solution of any problem”

Output:

A great discovery
Solves a great
Problem but there is
A grain of discovery
in the solution of
any problem