



Note: Answer five questions (Question one must answer it).

Q1:\ Write the output of the following programs with trace:

<p>a. # include <iostream.h> void main() { int m=5; int n=2; m*=n++; cout<<n<<"\t"<<m<<"\n"; m+=--n; cout<<n<<"\t"<<m<<"\n"; } (2.5 m)</p> <p>b. # include <iostream.h> void main() { for (int i=0;i<8;i++) if (i%2 ==0) cout<<i+1<<endl; else if (i%3 ==0) cout<<i<<endl; else if (i%5 ==0) cout<<2*i-1<<endl; else cout<<i<<endl; } (2.5 m)</p>	<p>c. # include <iostream.h> void test (int a,int *b, int *c) { if ((a>*b) (*c>*b)) { a=10;*c=5;} else { *b=*c; *c=1;} } void main() { int x=3,y=2,z=3; test (x,&y,&z); cout<<x<<y<<z; } (2.5 m)</p> <p>d. # include <iostream.h> int main() { int i,j,k; for(i=10;i>=1;i--) { for (j=1;j<=10-i;j++) cout<<" "; for (k=1;k<=i;k++) cout<<"*"; cout<<"\n"; return 0;} (2.5 m)</p>
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10 marks

Q2:\ (a): Define set precision and give a simple program to show this function.

(b): Write a complete program in C++ to convert number form decimal to binary number and print in order right.

10 marks

Q3:\(a): Define the enumerated data types, and write a C++ program to display the number of each season.

(b): Write a C++ program to build a recursive function to find GCD of two integers. 10 marks

Q4:\(a): Find the errors and correct them:

<p>1. int a[3]=[1,2,4,77,9]; cin>>a; 2. *(a[0]+(3))=10; 3. int new=50</p>	<p>4. cout<<"Hello, /* change ? */ world.\n"; 5. int x; int xp; xp=&x;</p>
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(b): Develop a program in C++ to read the following information (using structure) emp_name, emp_code, birthday (dd,mm,yyyy), years of experience, age. Then read this information for ten employees and print the code for the oldest one.

10 marks

Q5:\(a): Read (n) no's and print how many positive ones. Draw a flowchart for it.

(b): You have two arrays X[3] and Y[n], for each value in array X find out how many times this value of X accurse in array Y. Write a complete program to solve this problem.

10 marks

Q6 :\ (a): Write a program in C++ that read a value X in inches, and then convert it to centimeters. (Hint: 1 inch = 2.54 cm).

(b): Write a C++ program using function to inverse an integer number (7654→4567). 10 marks

GOODLUCK