SECTION IV

Question 12 (**5 marks**). Write a C program that asks the user for 3 integers, reads the values, and then prints out the largest number of the three.

```
#include<stdio.h>
int
main(void)
{
int n1, n2, n3;
printf("Enter three numbers\n");
scanf("%d%d%d", &n1, &n2, &n3);
if((n1>=n2 && n2>=n3)||(n1>=n3 && n3>=n1))
printf("The largest number is %d\n", n1);
else
if((n2>=n3 && n3>=n1)||(n2>=n1 && n1>=n3))
printf("The largest number is %", n2);
else
printf("The largest number is %", n3);
return(0);
}
```

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SECTION V

Question 13 (**5 marks**).

Write a program which does the following:
1. Asks the user to enter an integer.
2. Reads an integer
3. Prints "Leap year" if the integer represents a leap year, and otherwise prints "Not a leap year".

A number is a leap year if it is positive and evenly divisible by 4 but not evenly divisible by 100, with the exception that that numbers divisible by 400 are leap years. For example, the following are leap years: 4, 8, 400, 1600, 1604, 2000, 2012 and the following are not leap years: -4, 100, 500, 1900, 2011, 2100.

```
#include<stdio.h>
int
main(void)
{
 int year;
 printf("Enter an integer number \n");
  scanf("%d",&year);

 if ((year%400)=0)
 printf("leap year \n");
   else
 if( (year >=0) && ((year%4)=0) &&
                   ((year%100)!=0))

 printf("leap year \n");
   else
 printf("Not a leap year \n");
 return(0);
}
```