Example problem:

Given an integer N,

return the smallest integer greater than N, the sum of whose digits is twice as big as the sum of digits of N.

Example1:

Given N=14, the function should return 19,

The sum of digits of 19(1+9=10) is twice as big as sum of digit 14(1+4=5).

Example2:

Given N=10 the function should return 11.

Example3:

Given N=99 the function should return 9999.

EXAMPLE 1:

Ans:

PROGRAM:

**package** aug5th;

**public** **class** Demo {

**public** **static** **int** Find\_sum(**int** num) {

**int** sum=0;

**while**(num!=0) {

**int** rem=num%10;

sum=sum+rem;

num=num/10;

}

**return** sum;

}

**public** **static** **void** main(String[] args) {

**int** num=14;

**int** num1=num+1;

**int** res=*Find\_sum*(num);

**int** res1=*Find\_sum*(num1);

**while**(res\*2 !=res1) {

num1=num1+1;

res1=*Find\_sum*(num1);

}

System.***out***.println(num1);

}

}

OUTPUT:

19

EXAMPLE 2:

ANS:

PROGRAM

**public** **class** Demo {

**public** **static** **int** Find\_sum(**int** num) {

**int** sum=0;

**while**(num!=0) {

**int** rem=num%10;

sum=sum+rem;

num=num/10;

}

**return** sum;

}

**public** **static** **void** main(String[] args) {

**int** num=10;

**int** num1=num+1;

**int** res=*Find\_sum*(num);

**int** res1=*Find\_sum*(num1);

**while**(res\*2 !=res1) {

num1=num1+1;

res1=*Find\_sum*(num1);

}

System.***out***.println(num1);

}

}

OUTPUT:

11

EXAMPLE 3:

ANS:

PROGRAM:

**public** **class** Demo {

**public** **static** **int** Find\_sum(**int** num) {

**int** sum=0;

**while**(num!=0) {

**int** rem=num%10;

sum=sum+rem;

num=num/10;

}

**return** sum;

}

**public** **static** **void** main(String[] args) {

**int** num=99;

**int** num1=num+1;

**int** res=*Find\_sum*(num);

**int** res1=*Find\_sum*(num1);

**while**(res\*2 !=res1) {

num1=num1+1;

res1=*Find\_sum*(num1);

}

System.***out***.println(num1);

}

}

OUTPUT:

9999

KRISHNAMURTHY NUMBER:

**package** aug5th;

**public** **class** Krishnamurthy {

**public** **static** **int** fact(**int** num) {

**int** res=1;

**for**(**int** i=1;i<=num;i++) {

res=res\*i;

}

**return** res;

}

**public** **static** **int** find\_sum(**int** num) {

**int** sum=0;

**while**(num!=0) {

**int** rem=num%10;

sum= sum + *fact*(rem);

num=num/10;

}

**return** sum;

}

**public** **static** **void** main(String[] args) {

**int** num=145;

**int** res1=*find\_sum*(num);

**if**(res1==num) {

System.***out***.println("Its Krish number");

}

**else** {

System.***out***.println("Its not Krish number");

}

}

}

OUTPUT:

Its krishna number