NARMADHA S

ECE-D

240801216

ProblemStatement1:

Manypeoplethinkabouttheirheightinfeetandinches,eveninsome countriesthatprimarilyusethemetricsystem.Writeaprogramthatreads anumberoffeetfromtheuser,followedbyanumberofinches.Oncethese valuesareread,yourprogramshouldcomputeanddisplaytheequivalent numberofcentimeters.

Hint:Onefootis12inches.Oneinchis2.54centimeters.

InputFormat

First line, read the number of feet. Second

line, read the number of inches.
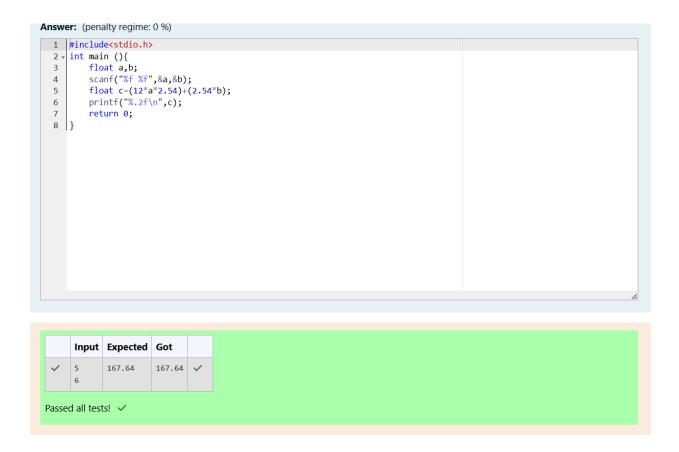
OutputFormat

Inonelineprinttheheightincentimeters.

Note:Allofthevaluesshouldbedisplayedusingtwodecimalplaces. SampleInput1

5

6

SampleOutput1

167.64

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main (){
    float a,b;
    scanf("%f %f",&a,&b);
    float c=(12*a*2.54)+(2.54*b);
    printf("%.2f\n",c);
    return 0;
}
```

	Input	Expected	Got	
✓	5 6	167.64	167.64	✓

Passed all tests! ✓

ProblemStatement2:

Createaprogramthatreadstwointegers,aandb,fromtheuser.Your

programshouldcomputeanddisplay:

• Thesumofaandb

- Thedifferencewhenbissubtractedfroma

- Theproductofaandb

- Thequotientwhenaisdividedbyb

- Theremainderwhenaisdividedbyb

InputFormat

Firstline,readthefirstnumber. Second line,

read the second number.

OutputFormat

Firstline,printthesumofaandb

Secondline,printthedifferencewhenbissubtractedfroma

Thirdline,printtheproductofaandb

Fourthline,printthequotientwhenaisdividedbyb

Fifthline,printtheremainderwhenaisdividedbyb

SampleInput1

100

6

SampleOutput1

106

94

600

16

4

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main() {
    int a,b;
    scanf("%d %d",&a,&b);
    int sum=a+b;
    int sub=a-b;
    int mup=a*b;
    int div=a/b;
    int rem=a%b;
    printf("%d\n",sum);
    printf("%d\n",sub);
    printf("%d\n",mup);
    printf("%d\n",div);
    printf("%d\n",rem);
    return 0;
}
```

	Input	Expected	Got	
✓	100 6	106 94 600 16 4	106 94 600 16 4	✓

Passed all tests! ✓

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ProblemStatement3:

Abakerysellsloavesofbreadfor$3.49each.Dayoldbreadisdiscountedby60percent.Writeaprogramthatbeginsbyreadingthenumberofloaves ofday-oldbreadbeingpurchasedfromtheuser.Thenyourprogramshould displaytheregularpriceforthebread,thediscountbecauseitisadayold, andthetotalprice.Eachoftheseamountsshouldbedisplayedonitsown linewithanappropriatelabel.Allofthevaluesshouldbedisplayedusing twodecimalplaces.
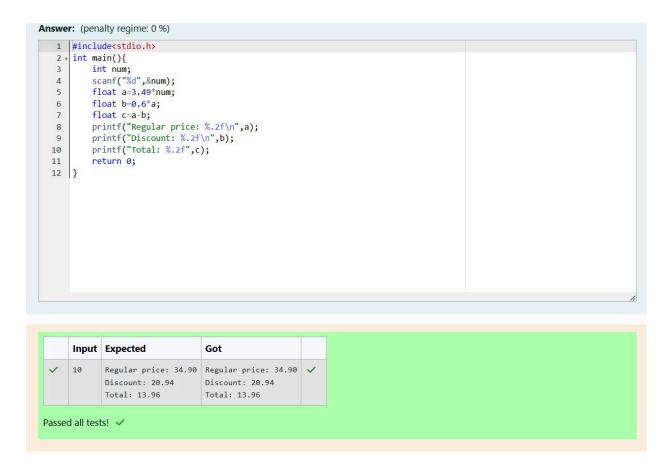
InputFormat

Readthenumberofdayoldloaves.

OutputFormat

Firstline,printRegularprice:priceSecondline,printDiscount:discount
Thirdline,printTotal:total

Note:Allofthevaluesshouldbedisplayedusingtwodecimalplaces. SampleInput1

10

SampleOutput1

Regularprice:34.90Discount:20.94Total:13.96

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int num;
    scanf("%d",&num);
    float a=3.49*num;
    float b=0.6*a;
    float c=a-b;
    printf("Regular price: %.2f\n",a);
    printf("Discount: %.2f\n",b);
    printf("Total: %.2f",c);
    return 0;
}
```

	Input	Expected	Got	
✓	10	Regular price: 34.90 Discount: 20.94 Total: 13.96	Regular price: 34.90 Discount: 20.94 Total: 13.96	✓

Passed all tests! ✓

ProblemStatement4:

Gokirecentlyhadabreakup,sohewantstohavesomemorefriendsinhis life.GokihasNpeoplewhohecanbefriendswith,sohedecidestochoose among them according to their skill set Yi(1<=i<=n). He wants atleast X skillsinhisfriends.HelpGokifindhisfriends.

InputFormat

First line contains a single integer X - denoting the minimum skill required to be Goki's friend. Next line contains one integer Y - denoting the skill of the person.

OutputFormat

Print if he can be friend with Goki. 'YES' (without quotes) if he can be friends with Goki else 'NO' (without quotes).

Constraints

$1 <= N <= 1000000$
$1 <= X, Y <= 1000000$

SAMPLEINPUT1

100

110

SAMPLEOUTPUT1

YES

```c
1  #include<stdio.h>
2  int main(){
3      int X,Y;
4      scanf("%d %d",&X,&Y);
5      if(1<=X && Y<=1000000 && Y>=X){
6          printf ("YES");
7      }
8      else{
9          printf ("NO");
10     }
11     return 0;
12 }
```

	Input	Expected	Got	
✓	100 110	YES	YES	✓
✓	100 90	NO	NO	✓

Passed all tests! ✓
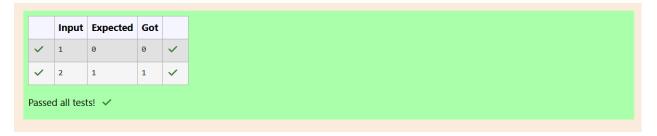
ProblemStatement5:

Beforetheoutbreakofcoronavirustotheworld,ameetinghappenedina roominWuhan.ApersonwhoattendedthatmeetinghadCOVID-19and nooneintheroomknewaboutit!So,everyonestartedshakinghandswith everyoneelseintheroomasagestureofrespectandaftermeeting unfortunatelyeveryonegotinfected!Giventhefactthatanytwopersons

shakehandexactlyonce,canyoutellthetotalcountofhandshakes happened in that meeting? Say no to shakehands. Regularly wash your hands.StaySafe.

InputFormat

ReadanintegerN,thetotalnumberofpeopleattendedthatmeeting.

OutputFormat

Printthenumberofhandshakes.

Constraints

0<N<106

SAMPLEINPUT1

1

SAMPLEOUTPUT

0

```c
#include<stdio.h>
int main(){
    int N;
    scanf ("%d",&N);
    if(N>0 && N<106){
        printf("%d",(N*(N-1))/2);
    }
    else{
        printf("0");
    }
    return 0;
}
```

	Input	Expected	Got	
✓	1	0	0	✓
✓	2	1	1	✓

Passed all tests! ✓

ProblemStatement6:

In our school days, all of us have enjoyed the Games period. Raghav loves to playcricketandisCaptainofhisteam.Healwayswantedtowinallcricket matches.ButonlyonelastGamesperiodisleftinschoolnow.Afterthathe willpassoutfromschool.So,thismatchisveryimportanttohim.Hedoes notwanttoloseit.Sohehasdonealotofplanningtomakesurehisteams wins.Heisworriedaboutonlyoneopponent-Jatin,whoisverygood batsman.Raghavhasfiguredout3typesofbowlingtechniques,thatcould bemostbeneficialfordismissingJatin.Hehasgivenpointstoeachofthe3

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techniques. You need to tell him which is the maximum point value, so that Raghav can select best technique. 3 numbers are given in input. Output the maximum of these numbers.

InputFormat:

Threespaceseparatedintegers.

OutputFormat:

Maximumintegervalue

SAMPLEINPUT 8

6 1

SAMPLEOUTPUT

8

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int a,b,c;
    scanf("%d %d %d",&a,&b,&c);
    if(a>b && a>c){
        printf("%d",a);
    }
    else if(b>c && b>a){
        printf("%d",b);
    }
    else{
        printf("%d",c);
    }
    return 0;
}
```

	Input	Expected	Got	
✓	81 26 15	81	81	✓

Passed all tests! ✓

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