

<b>Status</b>	Finished
<b>Started</b>	Monday, 3 November 2025, 9:02 PM
<b>Completed</b>	Monday, 3 November 2025, 10:05 PM
<b>Duration</b>	1 hour 2 mins



Question **1**

Correct

A single line L with a set of space separated values indicating distance travelled and time taken is passed as the input. The program must calculate the average speed S (with precision upto 2 decimal places) and print S as the output.

**Note:** The distance and time taken will follow the format DISTANCE@TIMETAKEN. DISTANCE will be in kilometers and TIMETAKEN will be in hours.

**Input Format:**

The first line contains L.

**Output Format:**

The first line contains the average speed S.

**Boundary Conditions:**

Length of L will be from 3 to 100.

**Example Input/Output 1:**

Input:

60@2 120@3

Output:

36.00 kmph

Explanation:

Total distance =  $60+120 = 180$  km.

Total time taken =  $2+3 = 5$  hours.

Hence average speed =  $180/5 = 36.00$  kmph

**For example:**

Input	Result
60@2 120@3	36.00 kmph



**Answer:** (penalty regime: 0 %)

```
1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5  char input[1000];
6  fgets(input,sizeof(input),stdin);
7  double totalDistance=0,totalTime=0;
8  char*token=strtok(input," ");
9  while(token != NULL)
10 {
11 double distance,time;
12 sscanf(token,"%lf@%lf",&distance,&time);
13 totalDistance +=distance;
14 totalTime +=time;
15 token=strtok(NULL,"");
16 }
17 double avgSpeed=totalDistance/totalTime;
18 printf("%.2f kmph\n",avgSpeed);
19 return 0;
20 }
21
```



	Input	Expected	Got	
✓	60@2 120@3	36.00 kmph	36.00 kmph	✓

Passed all tests! ✓



Question **2**

Correct

The program must accept two numbers X and Y and then print their HCF/GCD.

**Input Format:**

The first line denotes the value of X.

The second line denotes the value of Y.

**Output Format:**

The first line contains the HCF of X and Y.

**Boundary Conditions:**

$1 \leq X \leq 999999$

$1 \leq Y \leq 999999$

**Example Input/Output 1:**

Input:

30

40

Output:

10

**Example Input/Output 2:**

Input:

15

10

Output:

5

**For example:**

Input	Result
30 40	10

**Answer:** (penalty regime: 0 %)

```
1 | #include<stdio.h>
2 | int main()
```



```
3 {  
4     int x,y;  
5     scanf("%d",&x);  
6     scanf("%d",&y);  
7     while (x !=y)  
8     {  
9         if(x>y)  
10            x=x-y;  
11        else  
12            y=y-x;  
13    }  
14    printf("%d\n",x);  
15    return 0;  
16 }
```

	Input	Expected	Got	
✓	30 40	10	10	✓

Passed all tests! ✓



Question **3**

Correct

A string S is passed as input. S will contain two integer values separated by one of these alphabets - A, S, M, D where

- A or a is for addition
- S or s is for subtraction
- M or m is for multiplication
- D or d is for division

The program must perform the necessary operation and print the result as the output. (Ignore any floating point values just print the integer result.)

**Input Format:**

The first line contains S.

**Output Format:**

The first line contains the resulting integer value.

**Boundary Conditions:**

Length of S is from 3 to 100.

**Example Input/Output 1:**

Input:

5A11

Output:

16

Explanation:

As the alphabet is A, 5 and 11 are added giving 16.

**Example Input/Output 2:**



Input:

120D6

Output:

20

### Example Input/Output 3:

Input:

1405d10

Output:

140

### For example:

Input	Result
5A11	16
120D6	20
1405d10	140

**Answer:** (penalty regime: 0 %)

```
1  #include<stdio.h>
2  #include<string.h>
3  #include<ctype.h>
4  int main()
5  {
6      char s[101],op;
7      long long n1=0,n2=0;
8      scanf("%s",s);
9      int i=0;
10     while(isdigit(s[i]))
11     {
12         n1=n1*10+(s[i++]-'0');
13     }
14
15     }
16     op=toupper(s[i]);
17     i++;
18     while(isdigit(s[i]))
19     {
20         n2=n2*10+(s[i++]-'0');
21     }
22     switch(op)
23     {
```



```
24         case 'A':n1+=n2;break;
25         case 'S':n1-=n2;break;
26         case 'M':n1*=n2;break;
27         case 'D':n1/=n2;break;
28     }
29     printf("%lld\n",n1);
30     return 0;
31 }
```

	Input	Expected	Got	
✓	5A11	16	16	✓
✓	120D6	20	20	✓
✓	1405d10	140	140	✓

Passed all tests! ✓