

<b>Status</b>	Finished
<b>Started</b>	Monday, 3 November 2025, 1:56 PM
<b>Completed</b>	Monday, 3 November 2025, 2:17 PM
<b>Duration</b>	20 mins 25 secs

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  int main() {
3  double distance,time;
4  double total_distance=0,total_time=0;
5  while(scanf("%lf%lf",&distance,&time)==2) {
6  total_distance+=distance;
7  total_time+=time;
8  }
9  double avg_speed=total_distance/total_time;
10 printf("%.2f kmph\n",avg_speed);
11 return 0;
12 }
```

	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      int x,y;
4      scanf("%d", &x);
5      scanf("%d", &y);
6      while (y!=0) {
7          int temp=y;
8          y=x%y;
9          x=temp;
10     }
11     printf("%d",x);
12     return 0;
13 }
```

	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  int main() {
3      int a,b;
4      char op;
5      scanf("%d%c%d", &a, &op, &b);
6      if(op == 'A' || op=='a')
7          printf("%d",a+b);
8      else if(op == 'S' || op=='s')
9          printf("%d",a-b);
10     else if(op == 'M' || op=='m')
11         printf("%d",a*b);
12     else if(op == 'D' || op=='d')
13         printf("%d",a / b);
14     return 0;
15 }
```



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

Passed all tests! ✓

