

Status	Finished
Started	Sunday, 2 November 2025, 12:01 PM
Completed	Sunday, 2 November 2025, 12:50 PM
Duration	48 mins 52 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 #include<string.h>
3 #include<stdlib.h>
4 int main(){
5     char L[101];
6     fgets(L, sizeof(L), stdin);
7     L[strcspn(L, "\n")]=0;
8     char *token;
9     double total_distance=0.0;
10    double total_time=0.0;
11    token=strtok(L, " ");
12    while (token !=NULL) {
13        char *at_pos=strchr(token, '@');
14        if (at_pos !=NULL) {
15            *at_pos = '\0';
16            char *distance_str=token;
17            char *time_str=at_pos + 1;
18            double distance=atof(distance_str);
19            total_distance+=distance;
20            total_time+=atof(time_str);
21        }
22        token=strtok(NULL, " ");
23    }double average_speed=0.0;
24    if(total_time>0){
25        average_speed=total_distance/total_time;
26    }
27    printf("%2.1lf kmph\n", average_speed);
28    return 0;
29 }
```



	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	10
40	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
```

```
2 int gcd(int a,int b){  
3     if (b == 0)  
4         return a;  
5     return gcd(b, a%b);  
6 }  
7 int main(){  
8     int x,y;  
9     scanf("%d", &x);  
10    scanf("%d", &y);  
11    int result = gcd(x, y);  
12    printf("%d\n", result);  
13    return 0;  
14 }
```

	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<stdlib.h>
4 int main(){
5     char S[101];
6     fgets(S, sizeof(S), stdin);
7     S[strcspn(S, "\n")]=0;
8     int num1, num2;
9     char operator = ' ';
10    int len=strlen(S);
11    int op_pos=-1;
12    for(int i=0; i < len; i++ ) {
13        if(S[i] == 'A'||S[i] == 'a'||S[i] == 's'||S[i] == 'S'||S[i] == 'M'||S[i] == 'm'||S[i]== 'D'||S[i] == 'd'){
14            operator=S[i];
15            op_pos=i;
16            break;
17        }
18    }
19    if(op_pos !=-1) {
20        char num1_str[50]={0};
21        strncpy(num1_str,S,op_pos);
22        num1=atoi(num1_str);
23    }

```

```

24     char num2_str[50]={0};
25     strcpy(num2_str, S+op_pos+1);
26     num2=atol(num2_str);
27 }
28 int result;
29 switch(operator){
30     case'A':
31     case'a':
32         result=num1 +num2;
33         break;
34     case'S':
35     case's':
36         result=num1-num2;
37         break;
38     case'M':
39     case'm':
40         result=num1*num2;
41         break;
42     case'D':
43     case'd':
44         if(num2 !=0) {
45             result=num1/num2;
46         }else{
47             result=0;
48         }
49         break;
50     }
51     printf("%d\n",result);
52     return 0;

```

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

Passed all tests! ✓