

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("%2.2lf 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 40	10

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' ||
14         S[i] == 'M' || S[i] == 'm' || S[i] == 'D' || S[i] == 'd'){
15             operator=S[i];
16             op_pos=i;
17             break;
18         }
19     }
20     if(op_pos != -1) {
21         char num1_str[50]={0};
22         strncpy(num1_str, S, op_pos);
23         num1=atoi(num1_str);

```

```

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! ✓

