

Section: Week-14-Structures and Unions

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REC-CIS

MADHUJA BA 2024-CSE M2

Week-14-Structures and Unions

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Lecture Notes

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Assessment-01-Overview of C, Constants, Variables ...

Week-02-Operators and Expressions, Managing

Assessment-13-Passing Arrays and Strings to Functions

Week-15-Pointers

Week-14-Structures and Unions

Done

Assessment-13-Passing Arrays and Strings to Functions

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Week-15-Pointers

Week-14-Structures and Unions: Attempt review | REC-CIS - Personal - Microsoft Edge

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 struct Box{
3     int length;
4     int width;
5     int height;
6 };
7
8 int main(){
9     int n;
10    scanf("%d",&n);
11    struct Box boxes[n];
12    for(int i=0;i<n;i++){
13        scanf("%d %d %d",&boxes[i].length,&boxes[i].width,&boxes[i].height);
14        /*printf("%d %d %d\n",boxes[i].length,&boxes[i].width,&boxes[i].height);*/
15    }
16    for(int i=0;i<n;i++){
17        /*printf("%d %d %d",boxes[i].length,&boxes[i].width,&boxes[i].height);*/
18        if(boxes[i].height<4){
19            int volume=boxes[i].length*boxes[i].width*boxes[i].height;
20            printf("%d\n",volume);
21        }
22    }
23    return 0;
24 }
25
```

	Input	Expected	Got	
✓	4	125	125	✓
	5 5 5	80	80	
	1 2 40			
	10 5 41			
	7 2 42			

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 #include<math.h>
3 typedef struct{
4     int a; int b;int c;
5     double area;
6 }Triangle;
7 void swap(Triangle*a,Triangle*b){
8     Triangle temp =*a;
9     *a=*b;
10    *b=temp;
11 }
12 void ascend(Triangle arr[],int n){
13     for(int i=0;i<n;i++){
14         for(int j=i+1;j<n;j++){
15             if(arr[i].area>arr[j].area){
16                 swap(&arr[i],&arr[j]);
17             }
18         }
19     }
20 }
21 int main(){
22     int n;
23     scanf("%d",&n);
24     Triangle triangles[n];
25     for(int i=0;i<n;i++){
26         scanf("%d %d %d",&triangles[i].a,&triangles[i].b,&triangles[i].c);
27         double s=(triangles[i].a+triangles[i].b+triangles[i].c)/2.0;
28         triangles[i].area=sqrt(s*(s-triangles[i].a)*(s-triangles[i].b)*(s-triangles[i].c));
29     }
30     ascend(triangles,n);
31     for(int i=0;i<n;i++){
32         printf("%d %d %d\n",triangles[i].a,triangles[i].b,triangles[i].c);
33     }
34     return 0;
35 }
36

```

	Input	Expected	Got	
✓	3	3 4 5	3 4 5	✓
	7 24 25	5 12 13	5 12 13	
	5 12 13	7 24 25	7 24 25	
	3 4 5			

Passed all tests! ✓

Finish review