

sudhanshu r 240801340 week 14

Week 14 Structures and Unions: Attempt review | REG-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=158896&cmid=405

REG-CIS

```
1 #include <stdio.h>
2 #include <math.h>
3 #include <stdlib.h>
4 typedef struct{
5     double area;
6     int a,b,c;
7 }Triangle;
8 double calc_area(int a,int b,int c){
9     double p=(a+b+c)/2.0;
10    return sqrt(p*(p-a)*(p-b)*(p-c));
11 }
12 int compare(const void*x,const void*y){
13     Triangle *t1=(Triangle *)x;
14     Triangle *t2=(Triangle *)y;
15     if(t1->area < t2->area) return -1;
16     if(t1->area > t2->area) return 1;
17     return 0;
18 }
19 int main(){
20     int n;
21     scanf("%d",&n);
22     Triangle triangle[n];
23     for(int i=0;i<n;i++){
24         int a,b,c;
25         scanf("%d %d %d",&a,&b,&c);
26         triangle[i].a=a;
27         triangle[i].b=b;
28         triangle[i].c=c;
29         triangle[i].area=calc_area(a,b,c);
30     }
31     qsort(triangle,n,sizeof(Triangle),compare);
32     for(int i=0;i<n;i++){
33         printf("%d %d %d\n",triangle[i].a,triangle[i].b,triangle[i].c);
34     }
35     return 0;
36 }
```

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Search

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REG-CIS

```

20 int n;
21 scanf("%d",&n);
22 Triangle triangle[n];
23 for(int i=0;i<n;i++){
24     int a,b,c;
25     scanf("%d %d %d",&a,&b,&c);
26     triangle[i].a=a;
27     triangle[i].b=b;
28     triangle[i].c=c;
29     triangle[i].area=calc_area(a,b,c);
30 }
31 qsort(triangle,n,sizeof(Triangle),compare);
32 for(int i=0;i<n;i++){
33     printf("%d %d %d\n",triangle[i].a,triangle[i].b,triangle[i].c);
34 }
35 return 0;
36 }

```

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

Passed all tests! ✓

Finish review

REG-CIS

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     for(int i=0;i<n;i++){
6         int length,width,height;
7         scanf("%d %d %d",&length,&width,&height);
8         if(height < 41){
9             int volume=length*width*height;
10            printf("%d\n",volume);
11        }
12    }
13 }
```

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

Passed all tests! ✓