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

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

Passed all tests! <

```
#include<stdio.h>
    #include<math.h>
 2
   #include<stdlib.h>
 3
4 v typedef struct{
        double area;
 5
        int a,b,c;
 6
 7
 8
    }Triangle;
   double calculate area(int a,int b,int c){
        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 v
        Triangle*t1=(Triangle*)x;
14
        Triangle*t2=(Triangle*)y;
15
        if(t1->area<t2->area)return -1;
16
17
        if(t1->area>t2->area)return 1;
        return 0;
18
19
   int main(){
20 ▼
        int n;
21
        scanf("%d",&n);
22
23
        Triangle triangles[n];
        for(int i=0;i<n;i++){</pre>
24 •
            int a,b,c;
25
            scanf("%d %d %d",&a,&b,&c);
26
            triangles[i].a=a;
27
            triangles[i].b=b;
28
            triangles[i].c=c;
29
            triangles[i].area=calculate_area(a,b,c);
30
31
32
        qsort(triangles,n,sizeof(Triangle),compare);
33
        for(int i=0;i<n;i++){</pre>
34 ▼
            printf("%d %d %d\n",triangles[i].a,triangles[i].b,triangles[i].c);
35
36
        return 0;
37
38 }
```

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

Passed all tests! ✓

```
1 v
     * Complete the 'reverseArray' function below.
 2
 3
     * The function is expected to return an INTEGER ARRAY.
     * The function accepts INTEGER_ARRAY arr as parameter.
 6
 7
 8
     * To return the integer array from the function, you should:
 9
           - Store the size of the array to be returned in the result count variable
10
           - Allocate the array statically or dynamically
11
12
     * For example,
13
     * int* return integer array_using_static_allocation(int* result_count) {
14 •
           *result count = 5;
15
16
           static int a[5] = \{1, 2, 3, 4, 5\};
17
18
           return a;
19
20
21
     * int* return integer array using dynamic allocation(int* result count) {
22 v
           *result count = 5;
23
24
           int *a = malloc(5 * sizeof(int));
25
26
           for (int i = 0; i < 5; i++) {
27 1
               *(a + i) = i + 1;
28
29
30
31
           return a;
32
33
34
     #include<stdio.h>
35
    #include<stdlib.h>
36
37 | int* reverseArray(int arr_count, int *arr, int *result_count) {
   int*result=(int*)malloc(arr count*sizeof(int));
```

```
int*result=(int*)malloc(arr_count*sizeof(int));
39 v if(result==NULL){
         return NULL;
40
41
    for(int i=0;i<arr_count;i++)</pre>
42
43 ₹ {
         result[i]=arr[arr_count-i-1];
44
45
    *result_count=arr_count;
return result;
46
47
48
49
```

	Test	Expected	Got	
~	int arr[] = {1, 3, 2, 4, 5};	5	5	~
	<pre>int result_count;</pre>	4	4	
	<pre>int* result = reverseArray(5, arr, &result_count);</pre>	2	2	
	for (int i = 0; i < result_count; i++)	3	3	
	<pre>printf("%d\n", *(result + i));</pre>	1	1	

Passed all tests! <

```
1 v
     * Complete the 'cutThemAll' function below.
     * The function is expected to return a STRING.
 4
     * The function accepts following parameters:
     * 1. LONG INTEGER ARRAY lengths
     * 2. LONG INTEGER minLength
 8
 9
10
     * To return the string from the function, you should either do static allocation or dynamic allocation
11
12
     * For example,
13
     * char* return string using static allocation() {
14
           static char s[] = "static allocation of string";
15
16
17
           return s:
18
19
     * char* return string using dynamic allocation() {
20
           char* s = malloc(100 * sizeof(char));
21
22
           s = "dynamic allocation of string";
23
24
           return s;
25
26
27
28
     #include<stdio.h>
29
    char* cutThemAll(int lengths_count, long *lengths, long minlength) {
30
    long t=0,i=1;
31
32 v for(int i=0;i<lengths_count;i++){
33
        t+=lengths[i];
34
35 ▼ do{
        if(t-lengths[lengths count-1]<minlength){</pre>
36
            return "Impossible";
37
38
```

	Test	Expected	Got	
~	<pre>long lengths[] = {3, 5, 4, 3}; printf("%s", cutThemAll(4, lengths, 9))</pre>	Possible	Possible	~
~	<pre>long lengths[] = {5, 6, 2}; printf("%s", cutThemAll(3, lengths, 12))</pre>	Impossible	Impossible	~

Passed all tests! ✓