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

```
scanf("%d %d %d",&length,&width,&height);
9
10
11
12
             if (height < 41)</pre>
13
14 ▼
             {
                 int volume = length*width*height;
15
                 printf ("%d\n",volume);
16
17
             }
18
19
   }
```

```
Answer: (penalty regime: 0 %)
```

```
#include <stdio.h>
    #include <math.h>
    #include <stdlib.h>
 3
    typedef struct
 4
 5 ▼ {
        double area;
 6
 7
        int a,b,c;
8
9
    Triangle;
    double calculate_area(int a,int b,int c)
10
11 ▼
    {
         double p=(a+b+c)/2.0;
12
13
        return sart(p*(p-a)*(p-b)*(p-c)):
```

```
7
        int a,b,c;
8
9
    Triangle;
     double calculate_area(int a,int b,int c)
10
11 ▼
         double p=(a+b+c)/2.0;
12
13
         return sqrt(p*(p-a)*(p-b)*(p-c));
14
15
     }
     int compare(const void*x,const void*y)
16
17 ▼
         Triangle *t1 = (Triangle *)x;
18
         Triangle *t2 = (Triangle *)y;
19
         if(t1->area < t2->area)return -1;
20
         if(t1->area > t2->area)return 1;
21
```

```
23
      int main()
 24
 25 ₹
      {
 26
           int n;
           scanf("%d",&n);
27
          Triangle triangles[n];
28
29
          for(int i=0;i<n;i++)</pre>
30
31 ▼
          {
              int a,b,c;
32
              scanf("%d %d %d ",&a,&b,&c);
33
34
              triangles[i].a = a;
35
              triangles[i].b = b;
36
37
              triangles[i].c = c;
```

```
34
35
              triangles[i].a = a;
              triangles[i].b = b;
36
37
              triangles[i].c = c;
38
              triangles[i].area = calculate_area(a,b,c);
39
40
41
         }
         qsort(triangles, n, sizeof(Triangle),compare);
42
43
          for(int i=0;i<n;i++)</pre>
44
45 ▼
          {
             printf("%d %d %d\n",triangles[i].a,triangles[i].b,triangles
46
47
          }
48
          return 0;
```

```
39
40
41
         qsort(triangles, n, sizeof(Triangle),compare);
42
43
         for(int i=0;i<n;i++)</pre>
44
45 ₹
            printf("%d %d %d\n",triangles[i].a,triangles[i].b,triangles
46
47
        return 0;
48
49
     }
```