

1) First possible error is in following code:

```
if(div == 1)
{
    return 1;
}

else
{
    if((num / (div * div)) % 1 != 0)
    {
        div = sqr(num, div-1);
    }

    if((num / (div * div)) % 1 == 0)
    {
        return div;
    }
}
```

You need to write the head of function:

```
int sqr(int num, int div) {
    if(div == 1)
    {
        return 1;
    }

    else
    {
        if((num / (div * div)) % 1 != 0)
        {
            div = sqr(num, div-1);
        }

        if((num / (div * div)) % 1 == 0)
        {
            return div;
        }
    }
}
```

2) Second possible error is in “% 1” in following two fragments of code:

```
if((num / (div * div)) % 1 != 0)
...
if((num / (div * div)) % 1 == 0)
```

I don't know how it must be written, but the remainder by 1 is also equal to 0.

3) Third possible error is in “warning C4715: not all control paths return a value”. This means that the function “`int sqr(int num, int div)`” in some situation will not return any value. This situation is when second condition “`if((num / (div * div)) % 1 != 0)`” is true.

4) For the latest version of C++ standard need to replace

```
#include <iostream.h>
#include <conio.h>
```

on

```
#include <iostream>
#include <conio.h>

using namespace std;
```