Course C^{++} , Exercise Number 7

05.04.2012 + two weeks

First have a look at Task 8 from the ANSIC Class. We are going to make this task in C^{++} in a decent style. Download the files **assert.h**, **square.h**, **square.cpp**.

- 1. Complete the missing methods of **class square**.
- 2. The **class guess** assigns an element in the square, which will be withdrawn when the guess is destroyed. In this way, one can write code like

```
for( unsigned int k = 0; k < sq. getdimension(); ++ k)
{
   guess g = square::guess( sq, position(4,5), k);
} // Guess automatically backtracked. Don't call a
   // destructor by yourself.</pre>
```

In this small example, it is not really worth the effort, but it is useful to know about this technique.

3. Complete the programm. Put the table on Page 2 of the ${\cal C}$ exercise in a vector.

```
std::vector< position > order;
order. push_back( position(0,0) );
order. push_back( position(.... ));
```

Write the function

(I will be more impressed if you manage to find 5×5 squares. In order to do this, you have to find a good guessing strategy.)