


Computer programming

Section 4

Agenda

- Debugging a C++ application
 - cout debugging
 - Using the debugger
- Exercise from last section
- ~~• Exercise on loops~~
- ~~• Basics of multi-file programming~~
- ~~• Declaration, implementation and usage of functions.~~



Debugging a C++ application

Exercise 1

- Write a program fragment that uses nested loops to produce the following output:

```
1
12
123
1234
12345
123456
1234567
12345678
123456789
```

Exercise (1) Extra

- Write a program fragment that uses nested loops to produce the following output:

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Assignment

- Guessing game
- The program has a secret word which is output to the user as dashes.
The user tries to guess a letter in the word.
If the letter is correct the location of the letter is shown to the user.
If the letter is wrong the user can try again up to 5 wrong trials.
- Example, the word is "Banana"
First it is shown to the user as "- - - - -"
If the user enters the letter 'a'
Then it is shown as "- a-a-a"
If the user enters the letter c
Then a message similar to this is output "Wrong letter. 4 Trials left"
- The user wins if he guesses all the letters of the word correctly before he finishes his trial.
- Delivery using the website.