



COEN 11

Advanced Programming

Lab 1



Lab 1

- Connect remotely to the ECC
- Use vi
- Create the program
- Compile and execute
- Demo to the TA
- Upload the code to Camino



Lab 1 – Division Test

- Do 10 times
 - Generate two numbers between 0 and 12 randomly
 - Denominator (cannot be zero) and quotient
 - Output the dividend (divisor * quotient) and denominator
 - Input the answer
 - Compare the answer with the quotient
 - Output right or wrong
 - If the answer is wrong, output the correct quotient
 - Count the number of correct answers
- Show the total score to the user



Lab 1

To generate the random numbers

- divisor = `rand () % 12 + 1;`
- quotient = `rand () % 13;`
- call **srand** once, before the loop
`srand ((int) time (NULL));`



Lab 1

- Create a function to handle each division
 - The **main function** generates the numbers and passes them as **arguments** to the division function
 - The division function returns **1** if the user is right and **0** if the user is wrong
 - The main function counts the number of right answers in the loop



Lab 1

- Grading
 - Pre-lab
 - Flowchart or Pseudo-code – 10%
 - In the lab
 - Demo to the TA – 30%
 - Submit your code to Camino – 60%