

Midterm

- Date: 11/17, Thursday
- Time: 8:00~10:00 am
- Venue: EC122

Midterm

Possible problems

- Find errors
- Fill in blanks
- Show output of printf
- Show output of loop
- For loop \Leftrightarrow while loop
- Difference between C (C89, C99) and C++
- Monomorphism and polymorphism

Midterm

- Time complexity, e.g. # of times a statement is executed
- Type conversion
- Real representation and estimation
- Integer representation
- HW#2
- HW#3

Midterm

- Modification of a given program

e.g. Rewrite the following code without using break

```
bool prime(int n)
{
    bool r=true;                                // 1
    for (int d=2;d*d<=n;d++)                    // 2
        if (n%d==0) { r=false; break; }        // 3
    return r;                                    // 4
}
```

Midterm

- Modification of a given program

Method 1

Write the entire function and highlight the changes

```
bool prime(int n)
{
    bool r=true;
    for (int d=2;d*d<=n&&r;d++)
        if (n%d==0) r=false;
    return r;
}
```

Midterm

- Modification of a given program

Method 2

Simply indicate what changes must be made, e.g.

Line 2 Replace **d*d<=n** by **d*d<=n&r**

Line 3 Remove the **break** statement

Note: If something has to be inserted between line 3 and line 4, write this:

Line 3.5 ... *add something here* ...