

CSC444 - Software Engineering I

Week 9-2

Tools

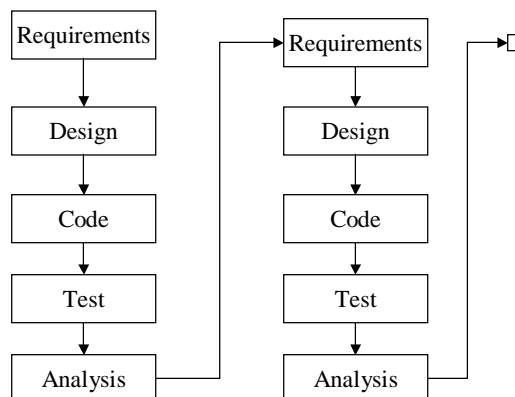
- Pretty printers
 - visual cues
- Cross-reference tools
 - dependencies
- Visualizing tools
 - overall structures
- Dynamic analysis
 - execution picture

Change control

- Identify and control requests for change
 - unique identifier
 - category
 - description
- Analyze each request for change
 - severity
 - priority
 - impact
- Implement the change

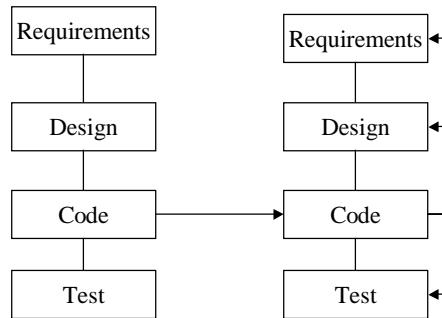
Models of maintenance

- Iterative enhancement
- Each enhancement starts by modifying the documents



Models of maintenance

- Quick-fix
- Works at the code level
- Documents are updated later
- Fake the process



Quality issues

- After each maintenance task perform regression testing
- Plan unit testing of the maintenance changes
- Perform system testing
 - apply appropriate changes needed
- Maintain data on code characteristics

```

do {
    loopCount--; rc = sqlpstr(agtCB);
    if (rc == 0) break;
    else if (rc == ((((((zRc)(7 << 24))) | (40) | ((zRc)(0x80000000))))
| (zRc)((16) << 16)) &&
        loopCount != 0) {
        if (dbcb->xNoEntry == 0) {
            ( (!g_zUseLTr) ? ((xltc_notrack(&dbcb->xregTEntrySem)) ?
            ((((((zRc)(7 << 24))) | (53) | ((zRc)(0x80000000)))) |
            (zRc)((15) << 16)) : 0) : ( trackwaitl(&cb->xTESem, "xreg.C", 167),
            (0), ((oxltcotrack(&dbcb->xTESem));)
            else {
                dbcb->xNTE = 1; rc = oset(&dbcb->xTEWaitPost);
            }
        }
        else if (rc != 0 && rc != ((((((zRc)(7 << 24))) | (40) | ((zRc)(0x80000000)))) |
            (zRc)((16) << 16))) {
            errId = 260; goto ErrorExit;
        }
        rc = oqwait2(&dbcb->xTEWaitPost, 0, -1L, 0);
        if (rc != 0) { errId = 270; goto ErrorExit;}
        else { errId = 280; goto ErrorExit;}
    } while (1);

```

```

IF not read(V1) GOTO DEF1;
display (V1);
GOTO C;
DEF1: IF not read(V2) GOTO DEF2;
display(V2);
GOTO C;
DEF2: display(3000);
C:

-- What is 3000?

```