Inspection checks

Fault class	Inspection check
Data faults	Are all program variables initialised before their values are used?
	Have all constants been named? Should the lower bound of arrays be 0, 1, or something else?
	Should the upper bound of arrays be equal to the size of the array or Size -1?
	If character strings are—used, is a delimiter explicitly assigned?
Control faults	For each conditional statement, is the condition correct? Is each loop certain to terminate?
	Are compound statements correctly bracketed? In case statements, are all possible cases accounted for?
Input/output faults	Are all input variables used? Are all output variables assigned a value before they are output?
Interface faults	Do all function and procedure calls have the correct number of parameters?
	Do formal and actual parameter types match?
	Are the parameters in the right order? If components access shared memory, do they have the same model of the shared memory structure?
Storage management faults	If a linked structure is modified, have all links been correctly reassigned?
	If dynamic storage is used, has space been allocated correctly?
	Is space explicitly de-allocated after it is no longer required?
Exception	Have all possible error conditions been taken into account?

LINT static analysis

```
#include <stdio.h>
printarray (Anarray)
int Anarray;
{
    printf("%d",Anarray);
}
main ()
{
    int Anarray[5]; int i; char c;
    printarray (Anarray, i, c);
    printarray (Anarray);
}

139% cc lint_ex.c
140% lint lint_ex.c
lint_ex.c(10): warning: c may be used before set
lint_ex.c(10): warning: i may be used before set
printarray: variable # of args. lint_ex.c(4) :: lint_ex.c(10)
printarray, arg. 1 used inconsistently lint_ex.c(4) :: lint_ex.c(11)
printf returns value which is always ignored

Olan Sommerville 1995 Software Engineering. 5th edition. Chapter 23 Silide 28
```