

Elliptical dependency

is
 $x \leftarrow A \cdot B \cdot x$

if $A \leftarrow x$ is also

there then you
 can't say that
 there is an ambiguity

IRSP
 C CAR(C A B C))
 ↳ return
 to signify a function

(A B C D)
 ↓
 list

union float type

int intEL;
 float floatEL; }

→ free unions in C

ALGOL 68 : discontinue

float type f;

f.intEL = 27

f.floatEL = 27.8 // we don't type check

unions
 C (type checking)

Pointer (indirect addressing)

Design Issues

The primary design issues particular to pointers are the following:

- What are the scope and lifetime of a pointer variable?
- What is the lifetime of a heap-dynamic variable (the value a pointer references)?
- Are pointers restricted as to the type of value to which they can point?
- Are pointers used for dynamic storage management, indirect addressing, or both?
- Should the language support pointer types, reference types, or both?

Plz use heap dynamic variables.

dangling pointer : contains address of heap dynamic variable which has been de-allocated.



