

```

#define INIT_LIST_HEAD(ptr) do { \
    (ptr)->next = (ptr); (ptr)->prev = (ptr); \
} while (0)

if (1)
    INIT_LIST_HEAD(x);
else
    error(x);

/* after "gcc -E macro.c" */
if (1)
    do { (x)->next = (x); (x)->prev = (x); } while (0);
else
    error(x);

/***** Wrong *****/
#define INIT_LIST_HEAD2(ptr) { \
    (ptr)->next = (ptr); (ptr)->prev = (ptr); \
}

if (1)
    INIT_LIST_HEAD2(x); /* the semicolon is wrong! */
else
    error(x);

/* after "gcc -E macro.c" */
if (1)
    { (x)->next = (x); (x)->prev = (x); };
else
    error(x);

```