```
^^include <stdio.h>

integer main()

^<

    integer num;


    print^<"Enter any number to check even or odd: ">^;

    scan^<$%integer: $num>^;


    switch(num $% 2)

    ^<

        case 0:


        ^<

            print^<"Number is Even">^;

            break;

        >^


        case 1:

        ^<

            printf("Number is Odd");

            break;

            >^

    >^

    return 0;

>^
```

Tree:

Tree 1 (root):

root

declaration

null:"^^" | declarationlist | null:"<" | declarationtype:1 | null:">"

null:"include"

term | null:"." | term

ID:"stdio"

ID:"h" | about_expr:1 ... output:3

type | term | null:";" | null:"print" | null:"^<" | expression:1 ... expression:2 ... expression:1

null:"integer" | ID:"num"

symbol | term | term | term | term | term | term | term | symbol | symbol

null:"""" | ID:"Enter" | ID:"any" | ID:"number" | ID:"to" | ID:"check" | ID:"even" | ID:"or" | ID:"odd" | null:":" | null:""""

Tree 2 (function):

function:1

type | ID:"main" | null:"(" | null:")" | inner_part

null:"integer"

null:"^<" | information | null:">^"

scan_:1 ... switch_case

expression:1 | null:">^" | null:";" | null:"scan" | null:"^<" | bin_op | type | null:":" | null:"$" | term | null:">^" | null:";" | null:"switch" | null:"(" | expression:3 ... null:")" ... nu

symbol | symbol

null:":" | null:""""

null:"$%" | null:"integer" | ID:"num"

expression:2 | bin_op | expression:2 | null:"case" | term | null:":" | inner_part

term | null:"$%" | term | LIT:"0" | null:"^<" | information | nu

ID:"num" | LIT:"2" | output:3

null:"print" | null:"^<" | expression:1 | expression:2 | expression:1 | null:">^"

symbol | term | term | term | symbol

null:"""" | ID:"Number" | ID:"is" | ID:"Even" | null:""""

Tree 3 (switch_case / return):

switch_case ... return_:1

ssion:3 | null:")" | null:"^<" | switchblock | null:">^" | null:"return" | expression:2 | null:";"

op | expression:2 | null:"case" | term | null:":" | inner_part | null:"case" | term | null:":" | inner_part | term

$%" | term | LIT:"0" | null:"^<" | information | null:">^" | LIT:"1" | null:"^<" | information | null:">^" | LIT:"0"

LIT:"2" | output:3 | breakset:1 | output:3 | breakset:1

pression:1 | expression:2 | expression:1 | null:">^" | null:";" | null:"break" | null:";" | null:"print" | null:"^<" | expression:1 | expression:2 | expression:1 | null:">^" | null:";" | null:"break" | null:";"

symbol | term | term | term | symbol | symbol | term | term | term | symbol

null:"""" | ID:"Number" | ID:"is" | ID:"Even" | null:"""" | null:"""" | ID:"Number" | ID:"is" | ID:"Odd" | null:""""