

Zombie,
07).

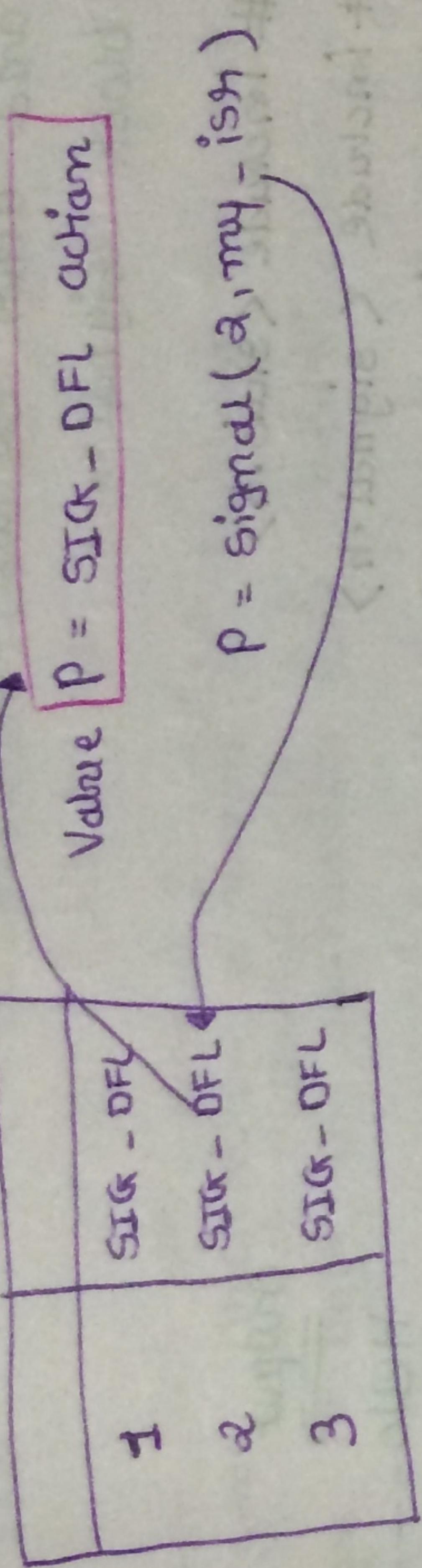
① disadvantages & advantages of signal

write a program to find the current action of the given signal , given the signal number .

Note :- Signal function return the previous default action .

:-
#include <stro.h>
#include <signal.h>

int a
State .



```

#include <stro.h>
#include <signal.h>

main()
{
    Void (*P)(int);
    int num;
    printf ("Enter the num---\n");
    Scanf ("%d", &num);
    Signal (2, SIG - IGN);
    P= Signal (num, SIG - IGN);

    Signal (num, P);
    if ( P== SIG - DFL)
        printf (" Default ---\n");
    else if ( P== SIG - IGN)
        printf (" Ignore ---\n");
    else
        printf (" my - ign ---\n");
}

```

① without setting the new action it is not possible to find out what is the current action is parent in the signal table corresponding to the signal value .

② disadvantage - 2

if signal is executing before another signal came then

- because of that completion of one signal is delayed, means if another signal is received, it is not possible to block other signal because to block other signal is executing.
- if same signal is came than block the next signal if execute the current signal and after execute the block signal.

main()

```
    {
        ("Hello world") prints
        signal (SIGALRM); // my - isn't
        alarm (5); // time
        paint ("Hello ---|n"); // (not - TIE, S)
        while (1);
    }
```

Created many #include

#include `<sys/types.h>`

#include `<sys/conf.h>`

#include `<sys/sig.h>`

#include `<sys/param.h>`

#include `<sys/conf.h>`

Void my

{

void (*SIGALRM)();

SIGACTION(SIGALRM, &my, SIG_BLOCK);

alarm (5);

sleep (1);

if (SIG_BLOCK & SIGALRM)

paint ("Hello ---|n");

else

paint ("Hello ---|n");

}

Point & Paint

}

Sigaction :

Main \$

3

```
// Examination → examine a signal action
#include <signal.h>
int sigaction (int signum, const struct sigaction *oldact,
               struct sigaction *newact);
```

ring before
the turn
is not possible
in if ISR
means signal
execute the

```
struct sigaction {
    void (*sa_handler) (int);
    void (*sa_sigaction) (int, siginfo_t *, void *);
    sigset(SIGSET_T
    int
    void
        (*sa_restarts) (void);
    };
```

- on some architecture a union is involved : do not assign to both a sa-handle and sa-sigaction.
- The Sa_restarts element is obsolete and should not be used.

In sig ---
sleep 10 sec.)
with 10 second)
isn ---
isn after sleep ---

Struct sigaction handle

POSIX :- Portable Operating System Interface

```
#include <stro.h>
#include <signal.h>
void my_isn (int n)
{
    printf ("Im isn---\n");
}
main()
{
    struct sigaction v;
    // Signal (a, my-isn);
    v.sa_handler = my-isn;
    sigemptyset (&v.sa_mask);
    v.sa_flags = 0;
    if (sigaction (SIGINT, &v, &v) != -1)
        perror ("Error");
}
```

ACTION

```
getS
sig
act
+);
```

else
ped

signature

Ways & Means

- ① Signaction (num, av, null);
→ New action
- 3 ways to use can else
 - use can else

① Sigaction (num, &v, NULL);
→ New action

(2) Signaction (num, null, &v);
→ old action

③ Suggestion (num, av, & v);

(min. 8V, max. 12V)

1) exact method to set new
method \Rightarrow In 1^{st}
In the nested to
set new
method

method but not collecting & finding
method

② suggestion (num, null, & v))
= we are not setting the mean method

collecting the old action (current action) collection

Sigacchina (num. 84; 85);

= give one setting a new action as well
= collecting the old action.

W. E. B. DuBois
The Souls of Black Folk

```
#include <stdio.h>
#include <signal.h>
```

manic

Structural signatures versus
certain secondary structures

int. museum;

pointf("Enter the number-->n");
scanf("%d-%d", &num);

Signal (α_1 , STGr - IGrN);
Signal (α_1 , Grm);

Sigacchion (*mānum*, *Mūu*, *gūv*);

```
if (v.a->handler == GETR - DFL)
```

Patient ("Defendant" --- "n")

```
else if ( v.sa-handel == SICK - TGN )
```

Patient C, Ignazie - --- (n =) ;

```
else  
    patient("my - 159 - ---\n        (" u ) ;
```

achiem

Signation for the STICKLD Gisela Pusch

- The modifiability of the maze of zero or tree of zero is signified by the behaviour of the specific set of flags which distinguish the sea flags from the land flags. It is signified by the signal of the following: The following is formed by the bitswise operation of the zero or tree of zero, which is modifiable by the following:

① SA - NOCLDSTOP :-

do not receive notification when child process
is stop or resume . The parent will receive the
SIGCHLD Signal when
 1) Child terminating .
 2) Child process suspended .
 3) Child process resumed .

```

#include < stdio.h>
#include < signal.h>
void main( int n)
{
    printf (" In sign ---\n");
}
main()
{
    if ( fork() == 0 )
    {
        print (" In child pid = %d \n", getpid());
        while (1);
    }
    else
    {
        struct sigaction v;
        v.sa_handler = sleep(5);
        v.sa_flags = SA_NOCLEANUP;
        sigemptyset (&v, sa_mask);
        // v.sa_flags = 0
        v.sa_flags = SA_NOCLEANUP;
        if (sigaction (17, &v, NULL));
        while (1);
    }
}
  
```

③

SA - NO CLOWN WAIT

If signum is SIGCHLD.

- do not transform child into zombies when they terminate.
- the process

```
#include <stdio.h>
#include <signal.h>
void my_isn (int n)
{
    printf (" In isn ----\n");
}

main()
{
    if (fork () == 0)
        {
            pid = fork ();
            while (1);
        }
    else
        {
            struct Sigaction v;
            v.sa_handler = my_isn;
            sigemptyset (&v.sa_mask);
            v.sa_flags = SA_NOMASK;
            if (sigaction (SIGCHLD, &v, NULL) != -1)
                while (1);
        }
}

```

③ SA - NODEFER :-

- Do not prevent the signal from being received from within its own signal handler.
- This is flag is only meaningful when establishing a signal handler - to tell the kernel to ignore the signal.

Program :-

```

#include <stdio.h>
#include <signal.h>
void my_isn (int n)
{
    if (n == 1)
        Pointf ("In isn---\n");
    Sleep (10);
    Pointf ("In isn after sleep---\n");
}

main()
{
    struct Sigaction v;
    v.sa_handler = my_isn;
    sigemptyset (&v.sa_mask);
    v.sa_flags = SA_NODFER;
    Sigaction (2, &v, 0);
    while (1);
}

SA_RESETHAND := SIG_BLOCK (SIGPOLL);

Restore the signal action to the default state once
the signal handler has been called.
method is
in global

#include <signal.h>
void my_isn (int n)
{
    Pointf ("In isn---\n");
}

main()
{
    struct Sigaction v;
    v.sa_handler = my_isn;
    sigemptyset (&v.sa_mask);
    v.sa_flags = SA_RESETHAND;
}

```