

táblázat

| First fit | 30    | 35    | 15 | 25   | 75        | 45   |
|-----------|-------|-------|----|------|-----------|------|
| 39        |       |       |    |      | X, 36     |      |
| 40        |       |       |    |      |           | X, 5 |
| 33        |       | X, 2  |    |      |           |      |
| 20        | X, 10 |       |    |      |           |      |
| 21        |       |       |    | X, 4 |           |      |
|           |       |       |    |      |           |      |
| Next fit  | 30    | 35    | 15 | 25   | 75        | 45   |
| 39        |       |       |    |      | X, 36     |      |
| 40        |       |       |    |      |           | X, 5 |
| 33        |       | X, 2  |    |      |           |      |
| 20        |       |       |    | X, 5 |           |      |
| 21        |       |       |    |      | X, 36, 15 |      |
|           |       |       |    |      |           |      |
| Best fit  | 30    | 35    | 15 | 25   | 75        | 45   |
| 39        |       |       |    |      |           | X, 6 |
| 40        |       |       |    |      | X, 35     |      |
| 33        |       | X, 2  |    |      |           |      |
| 20        |       |       |    | X, 5 |           |      |
| 21        | X, 9  |       |    |      |           |      |
|           |       |       |    |      |           |      |
| Worst fit | 30    | 35    | 15 | 25   | 75        | 45   |
| 39        |       |       |    |      | X, 36     |      |
| 40        |       |       |    |      |           | X 5  |
| 33        |       |       |    |      | X, 36, 3  |      |
| 20        |       | X, 15 |    |      |           |      |
| 21        | X, 9  |       |    |      |           |      |

## semset.c

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#define SEMKEY 123456L

int semid,nsems,semnum,rtn;

    int semflg;
    struct sembuf sembuf, *sop;
    union semun arg;
    int cmd;

int main()
{

    nsems = 1;
    semflg = 00666 | IPC_CREAT;
    semid = semget (SEMKEY, nsems, semflg);
    if (semid < 0 ) {perror(" semget hiba"); exit(0);}
    else printf("\n semid: %d ",semid);
    printf ("\n kerem a semval erteket ");

    semnum = 0;

    cmd = SETVAL;
    scanf("%d",&arg.val);
    rtn = semctl(semid,semnum, cmd, arg);
    printf("\n set   rtn: %d ,semval: %d ",rtn,arg.val);
    printf("\n");

}
```

## semkill.c

```
#include <stdio.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#define SEMKEY 123456L

    int semid,nsems,rtn;
    int semflg;
    struct sembuf sembuf, *sop;
    union semun arg;
    int cmd;

main()
{
    nsems = 1;
    semflg = 00666 | IPC_CREAT;
    semid = semget (SEMKEY, nsems, semflg);
    if (semid < 0 )
    {
        perror("Semget hiba!\n");
        exit(0);
    }
    else
    {
        printf("semid: %d\n",semid);
    }

    cmd = IPC_RMID;
    rtn = semctl(semid, 0, cmd, arg);

    printf("kill rtn: %d\n",rtn);
}
```

## semup.c

```
#include <stdio.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#define SEMKEY 123456L

    int semid, nsems, rtn;
    unsigned nsops;
    int semflg;
    struct sembuf sembuf, *sop;

main()
{
    nsems = 1;
    semflg = 00666 | IPC_CREAT;
    semid = semget (SEMKEY, nsems, semflg);
    if (semid < 0 )
    {
        perror("Semget hiba!\n");
        exit(0);
    }

    else
    {
        printf("semid: %d\n", semid);
    }

    nsops = 1;
    sembuf.sem_num = 0;
    sembuf.sem_op = 1;
    sembuf.sem_flg = 0666;
    sop = &sembuf;
    rtn = semop(semid, sop, nsops);
    printf("up rtn: %d\n", rtn);
}
```

## semval.c

```
#include <stdio.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#define SEMKEY 123456L

    int semid,nsems,rtn;
    int semflg;
    struct sembuf sembuf, *sop;
    union semun arg;
    int cmd;

main()
{
    nsems = 1;
    semflg = 00666 | IPC_CREAT;
    semid = semget (SEMKEY, nsems, semflg);
    if (semid < 0 )
    {
        perror("Semget hiba!\n");
        exit(0);
    }
    else
    {
        printf("semid: %d\n", semid);
    }

    cmd = GETVAL;
    rtn = semctl(semid, 0, cmd, NULL);

    printf("semval: %d\n", rtn);
}
```