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// Illustration of semget() of semaphores
// Bosky Agarwal
// Interprocess communication in Linux

#include <stdio.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>

extern void    exit();
extern void    perror();

main()
{
    key_t  key;    /* key to pass to semget() */
    int  semflg;  /* semflg to pass to semget() */
    int  nsems;   /* nsems to pass to semget() */
    int  semid;   /* return value from semget() */

    printf("\nEnter key: ");
    scanf("%li", &key);

    printf("\nEnter nsems value: ");
    scanf("%i", &nsems);

    printf("\nThe flag values are specified in sem.h");
    printf("\nIPC_PRIVATE = 00000000");
    printf("\nIPC_CREAT   = 00001000");
    printf("\nIPC_EXCL    = 00002000");

    printf("\nEnter semflg value: ");
    scanf("%i", &semflg);

    if ((semid = semget(key, nsems, semflg)) == -1)
    {
        perror("semget: semget failed");
        exit(1);
    }
    else
    {
        printf("semget: semget succeeded: semid = %d\n",semid);
        exit(0);
    }
}

```