

```

#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <time.h>
#include <sys/types.h>
#include <sys/wait.h>

int main ()
{
    int A[10], *B, i, t, pid;

    srand((unsigned int)time(NULL));
    B = (int *)malloc(10 * sizeof(int));
    t = 1 + rand() % 5;
    if ((pid = fork())) {
        for (i=0; i<10; ++i) A[i] = B[9-i] = 10+i;
        printf("Parent process going to sleep for %d seconds\n", t);
        sleep(t);
        printf("Parent process: A = %p, B = %p\n", A, B);
    } else {
        for (i=0; i<10; ++i) A[i] = B[9-i] = i;
        i = t; while (i == t) t = 1 + rand() % 5;
        printf("Child process going to sleep for %d seconds\n", t);
        sleep(t);
        printf("Child process: A = %p, B = %p\n", A, B);
    }
    printf("A[] ="); for (i=0; i<10; ++i) printf(" %d", A[i]); printf("\n");
    printf("B[] ="); for (i=0; i<10; ++i) printf(" %d", B[i]); printf("\n");
    free(B);
    if (pid) wait(NULL);
    exit(0);
}

```