

```

unsigned int a = 3;
unsigned int b = 5;
unsigned int c = 6;
unsigned int d = 4;

unsigned int max_ab;
unsigned int max_cd;

void main ()
{
    register unsigned int x;           /* a stocker dans r0 */
    register unsigned int y;           /* a stocker dans r1 */
    register unsigned int *maxi;        /* a stocker dans r2 */
    register unsigned int rmax;         /* a stocker dans r8 */

    register unsigned int e;           /* a stocker dans r4 */
    register unsigned int f;           /* a stocker dans r5 */
    register unsigned int max_ef;       /* a stocker dans r6 */

    e = 5;                             mov r4,#5
    f = 6;                             mov r5,#6

    max_ef = e;                         mov r6,r4
    max_ef = f;                         mov r6,r5

    x = a;                             ldr r0,=a; ldr r0,[r0]
    y = b;                             ldr r1,=b; ldr r1,[r1]

    rmax = x;                           mov r8,r0
    rmax = y;                           mov r8,r1
    *maxi = rmax;                       str r8,[r2]

    x = c;                             ldr r0,=c; ldr r0,[r0]
    y = d;                             ldr r1,=d; ldr r1,[r1]
    maxi = &max_cd;                   ldr r2,=max_cd
    rmax = x;                           mov r8,r0
    rmax = y;                           mov r8,r1
    *maxi = rmax;                       str r8,[r2]
}

```