

```
/* Homework 2 Problem 2
*
* Computes A*B + C/D, where
* A, B, C and D are defined below.
*
* Note:
* B and D are constants, so they can be used
* with "immediate" instructions like "muli"
* and "movi". (Note: movi is used with D
* because there is no divi instruction.)
*
* A and C are labels that point to variables stored
* in memory, so you must use "ldw" to get their value.
*/

.equ    B, 5
.equ    D, 6

.global _start

.text
_start:    movia    r10, A
            ldw      r2, 0(r10)           /* read A */
            muli     r11, r2, B           /* compute A*B */

            movia    r10, C
            ldw      r2, 0(r10)           /* read C */
            movi     r3, D
            div      r12, r2, r3          /* compute C/D */

            add      r11, r11, r12        /* add A*B and C/D */

STOP:      br       STOP

.data
A:
.word 7
C:
.word 24

.end
```