```
macro monolitico zerar (REG)
        1: se zero-REG entao va_para 2 senao va_para 0
        2: faca sub-REG va_para 1
fimmacro

macro iterativo mover_somar (DEST, SRC)
        ate zero-SRC faca (ad-DEST;sub-SRC)
fimmacro

macro monolitico somar (DEST, SRC, AUX)
        1: faca mover_somar(AUX, SRC) va_para 2
        2: se zero-AUX entao va_para 0 senao va_para 3
        3: faca ad-DEST va_para 4
        4: faca ad-SRC va_para 5
        5: faca sub-AUX va_para 2
fimmacro

macro iterativo somar2(DEST, SRC, AUX)
        ate zero-SRC faca (ad-AUX;sub-SRC);
        ate zero-AUX faca (ad-DEST;ad-SRC;ad-AUX)
fimmacro

macro iterativo menor (A, B, C, D, E, F)
{A: menor, B: maior, C, D, E: auxiliar}
        ate zero-A faca (ad-E;sub-A);
        ate zero-E faca (ad-C;ad-A;ad-E);

        ate zero-B faca (ad-E;sub-B);
        ate zero-B faca (ad-D;ad-B;ad-E);
```

```
        ate zero-C faca (
                se zero-D entao sub-F senao sub-C;sub-D;
                se zero-D entao sub-F senao ad-F
        )

fimmacro

macro iterativo teste_mod (A, B, C) teste zero-C

        ate zero-A faca (ad-D;ad-E;sub-A);
        ate zero-E faca (ad-A;sub-E);
        ate zero-A faca (
                ate zero-B faca (
                        sub-A;ad-E;sub-B;
                        (se zero-A entao (
                                (se zero-B entao V
                                senao (ad-C));
                                ate zero-D faca (ad-A;sub-D);ate zero-E faca (ad-G;sub-E);ate zero-G
faca (ad-B;ad-E;sub-G);retornar)
                        senao V));
                ate zero-E faca (ad-B;sub-E))
fimmacro



macro iterativo mdc(A, B, C, D, E)
{A: maior valor
B: menor velor
C, D, E: auxiliares
```

```
F: resultado final}

        teste_mod(A, B, C);
        se zero-C entao (ate zero-B faca (ad-F;sub-B))
                senao (
                        ate zero-C faca
                                (ate zero-C faca (sub-C);
                                teste_mod(A,B,C);

                                {MAIOR = MENOR}
                                ate zero-A faca (sub-A);
                                ate zero-B faca (ad-A;sub-B);

                                {MENOR = RESTO}
                                ate zero-E faca (ad-G;sub-E);
                                ate zero-G faca (ad-B;ad-E;sub-G));

                        ate zero-A faca (ad-F;sub-A));
                ate zero-A faca (ad-F;sub-A)

fimmacro

mdc(A, B, C, D, E)
```