Yania Catalina Gonlzález

1.088.285.640

Ejercicio en clase

INT i=20;

INT J=11;

IF(i! =J){

I++;

}

ELSE{

I--;

}

RETURNi++;

}

LENGIAJE ENSAMBLADOR

0x0000 MOV 20, %L0

0x0004 MOV 11, %L1

0x0008 CMP %L0, %L1 0x000C BE a, FALSE

0x0010 ADD %L0,1,%L0

0x0014 BA a, EXIT FALSE

0x0018 SUB %L0,1,%L0 EXIT

0x001C ADD %L0,%L1, %O0

LENGUAJE DE MAQUINA

0x0000

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **OP** | **RD** | **OP3** | **RS1** | **i** | **Imm13** |
|  |  |  |  |  |  |
| 10 | 10000 | 000010 | 00000 | 1 | 0000000010100 |
|  |  |  |  |  |  |
| 0x0004 | |  |  |  |  |
|  |  |  |  |  |  |
| **OP** | **RD** | **OP3** | **RS1** | **i** | **Imm13** |
|  |  |  |  |  |  |
| 10 | 10001 | 000010 | 00001 | 1 | 0000000001011 |
|  |  |  |  |  |  |

0x0008

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **OP** |  | **RD** | |  | **OP3** | | **RS1** | **i** | **Unused** | **RS2** | | |
|  |  | |  |  | |  |  |  |  |  |  |  |
| 10 | 00000 | | | 010100 | | | 10000 | 0 | 00000000 | 10001 | | |
|  |  | |  |  |  |  |  |  |  |  |  |  |
| 0x000C | | | |  |  |  |  |  |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |  |
| **OP** | **a** |  | **COND** | |  | **OP2** |  |  | **Disp22** |  |  |  |
|  |  |  |  | |  |  |  |  | | |  |  |
| 00 | 1 |  | 0001 | |  | 010 | 0000000000000000000011 | | | |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |
| 0x0010 | | | |  |  |  |  |  |  |  |  |  |
|  |  |  | |  |  |  |  |  |  |  |  |  |
| **OP** |  | **RD** | |  | **OP3** | | **RS1** | **i** | **Imm13** |  |  |  |
|  |  | | |  | |  |  |  |  | |  |  |
| 10 | 10000 | | | 000000 | | | 10000 | 1 | 0000000000001 | |  |  |
|  |  | | |  |  |  |  |  |  |  |  |  |
| 0x0014 | | | |  |  |  |  |  |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |  |
| **OP** | **a** |  | **COND** | |  | **OP2** |  |  | **Disp22** |  |  |  |
|  |  |  |  | |  |  |  |  | | |  |  |
| 00 | 1 |  | 1000 | |  | 010 | 0000000000000000000010 | | | |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |
| 0x0018 | | | |  |  |  |  |  |  |  |  |  |
|  |  |  | |  |  | |  |  |  |  |  |  |
| **OP** |  | **RD** | |  | **OP3** | | **RS1** | **i** |  | **Imm13** |  |  |
|  |  | | |  | | |  |  |  | |  |  |
| 10 | 10000 | | | 000100 | | | 10000 | 1 | 0000000000001 | |  |  |
|  |  | | |  |  |  |  |  |  |  |  |  |
| 0x001C | | | |  |  |  |  |  |  |  |  |  |
|  |  |  | |  |  | |  |  |  |  | | |
| **OP** |  | **RD** | |  | **OP3** | | **RS1** | **i** | **Unused** | **RS2** | | |
|  |  | | |  | | |  |  |  |  | | |
| 10 | 01000 | | | 000000 | | | 10000 | 0 | 00000000 | 10001 | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |