|  |  |
| --- | --- |
| main() {  **int** A[10], i, x;  x = read-from-file();  **for** (i = 0; i < x; i++) {  A[i] = 10;  }  } | main:  1 subl $48, %esp  2 %ebx = read\_from\_file  3 mov %ebx, 44(%esp) *//Initializing x*  4 movl $0, 40(%esp) *//Initializing i*  5 jmp L2 // jump to condition check  L3:  6 movl 40(%esp), %eax //load i  7 movl $10, (%esp,%eax,4) *//Reference A[i]*  8 addl $1, 40(%esp) //Increment i  L2:  9 cmpl 40(%esp), 44(%esp) *//compare x and i*  10 jl L3 |

**Source Code Pseudo Assembly Code**