

## PreLab 4:

Translate the following C code into a VSCPU ASM.

```

int main()
{
    #define N 8                //N is in 2000
    int L[N];                  // &L[0] is in 2001
    int i=3;                   // i is in 101
    for(int k = 0; k < N; k++)  // k is in 102
        power(&i,&k, &L[k]);
}

void power(int *j, int *X, int *OUT)  // j, X, OUT are respectively in 301,302,303
{                                     // Also, the start of the function is 300
    // The return address is written in 70
    *OUT = 1;
    if(*X == 0)
        return;
    for(int k=0; k < *X; k++)          // k is in 500
        *OUT = (*OUT) * (*j);
}

```