

## 一. 实现思路: 条件判断+已知次数的循环

## 1. 初始化:

1) 获取 N

2) 分配 Q 的地址

## 2. 特殊情况处理:

N &lt;= 2, 直接存储

## 3. 应用 Q 循环, 逐次增加 N 并计算结果:

## 4. 存储结果

## 二. 关键知识:

1. .BLKW 分配地址

2. LD LDI LDR LEA ST STI STR 的合理使用

## 三. 实验结果

N=100

|     |       |       |    |               |
|-----|-------|-------|----|---------------|
| ① ▶ | x3027 | x0000 | 0  | QAD .BLKW 100 |
| ① ▶ | x3028 | x0001 | 1  | QAD .BLKW 100 |
| ① ▶ | x3029 | x0001 | 1  | QAD .BLKW 100 |
| ① ▶ | x302A | x0002 | 2  | QAD .BLKW 100 |
| ① ▶ | x302B | x0003 | 3  | QAD .BLKW 100 |
| ① ▶ | x302C | x0003 | 3  | QAD .BLKW 100 |
| ① ▶ | x302D | x0004 | 4  | QAD .BLKW 100 |
| ① ▶ | x302E | x0005 | 5  | QAD .BLKW 100 |
| ① ▶ | x302F | x0005 | 5  | QAD .BLKW 100 |
| ① ▶ | x3030 | x0006 | 6  | QAD .BLKW 100 |
| ① ▶ | x3031 | x0006 | 6  | QAD .BLKW 100 |
| ① ▶ | x3032 | x0006 | 6  | QAD .BLKW 100 |
| ① ▶ | x3033 | x0008 | 8  | QAD .BLKW 100 |
| ① ▶ | x3034 | x0008 | 8  | QAD .BLKW 100 |
| ① ▶ | x3035 | x0008 | 8  | QAD .BLKW 100 |
| ① ▶ | x3036 | x000A | 10 | QAD .BLKW 100 |
| ① ▶ | x3037 | x0009 | 9  | QAD .BLKW 100 |
| ① ▶ | x3038 | x000A | 10 | QAD .BLKW 100 |
| ① ▶ | x3039 | x000B | 11 | QAD .BLKW 100 |
| ① ▶ | x303A | x000B | 11 | QAD .BLKW 100 |
| ① ▶ | x303B | x000C | 12 | QAD .BLKW 100 |
| ① ▶ | x303C | x000C | 12 | QAD .BLKW 100 |
| ① ▶ | x303D | x000C | 12 | QAD .BLKW 100 |
| ① ▶ | x303E | x000C | 12 | QAD .BLKW 100 |
| ① ▶ | x303F | x0010 | 16 | QAD .BLKW 100 |
| ① ▶ | x3040 | x000E | 14 | QAD .BLKW 100 |
| ① ▶ | x3041 | x000E | 14 | QAD .BLKW 100 |
| ① ▶ | x3042 | x0010 | 16 | QAD .BLKW 100 |
| ① ▶ | x3043 | x0010 | 16 | QAD .BLKW 100 |
| ① ▶ | x3044 | x0010 | 16 | QAD .BLKW 100 |
| ① ▶ | x3045 | x0010 | 16 | QAD .BLKW 100 |

|     |       |       |    |               |
|-----|-------|-------|----|---------------|
| ① ▶ | x3046 | x0014 | 20 | QAD .BLKW 100 |
| ① ▶ | x3047 | x0011 | 17 | QAD .BLKW 100 |
| ① ▶ | x3048 | x0011 | 17 | QAD .BLKW 100 |
| ① ▶ | x3049 | x0014 | 20 | QAD .BLKW 100 |
| ① ▶ | x304A | x0015 | 21 | QAD .BLKW 100 |
| ① ▶ | x304B | x0013 | 19 | QAD .BLKW 100 |
| ① ▶ | x304C | x0014 | 20 | QAD .BLKW 100 |
| ① ▶ | x304D | x0016 | 22 | QAD .BLKW 100 |
| ① ▶ | x304E | x0015 | 21 | QAD .BLKW 100 |
| ① ▶ | x304F | x0016 | 22 | QAD .BLKW 100 |
| ① ▶ | x3050 | x0017 | 23 | QAD .BLKW 100 |
| ① ▶ | x3051 | x0017 | 23 | QAD .BLKW 100 |
| ① ▶ | x3052 | x0018 | 24 | QAD .BLKW 100 |
| ① ▶ | x3053 | x0018 | 24 | QAD .BLKW 100 |
| ① ▶ | x3054 | x0018 | 24 | QAD .BLKW 100 |
| ① ▶ | x3055 | x0018 | 24 | QAD .BLKW 100 |
| ① ▶ | x3056 | x0018 | 24 | QAD .BLKW 100 |
| ① ▶ | x3057 | x0020 | 32 | QAD .BLKW 100 |
| ① ▶ | x3058 | x0018 | 24 | QAD .BLKW 100 |
| ① ▶ | x3059 | x0019 | 25 | QAD .BLKW 100 |
| ① ▶ | x305A | x001E | 30 | QAD .BLKW 100 |
| ① ▶ | x305B | x001C | 28 | QAD .BLKW 100 |
| ① ▶ | x305C | x001A | 26 | QAD .BLKW 100 |
| ① ▶ | x305D | x001E | 30 | QAD .BLKW 100 |
| ① ▶ | x305E | x001E | 30 | QAD .BLKW 100 |
| ① ▶ | x305F | x001C | 28 | QAD .BLKW 100 |
| ① ▶ | x3060 | x0020 | 32 | QAD .BLKW 100 |
| ① ▶ | x3061 | x001E | 30 | QAD .BLKW 100 |
| ① ▶ | x3062 | x0020 | 32 | QAD .BLKW 100 |
| ① ▶ | x3063 | x0020 | 32 | QAD .BLKW 100 |
| ① ▶ | x3064 | x0020 | 32 | QAD .BLKW 100 |

|     |       |       |    |               |
|-----|-------|-------|----|---------------|
| ① ▶ | x3065 | x0020 | 32 | QAD .BLKW 100 |
| ① ▶ | x3066 | x0028 | 40 | QAD .BLKW 100 |
| ① ▶ | x3067 | x0021 | 33 | QAD .BLKW 100 |
| ① ▶ | x3068 | x001F | 31 | QAD .BLKW 100 |
| ① ▶ | x3069 | x0026 | 38 | QAD .BLKW 100 |
| ① ▶ | x306A | x0023 | 35 | QAD .BLKW 100 |
| ① ▶ | x306B | x0021 | 33 | QAD .BLKW 100 |
| ① ▶ | x306C | x0027 | 39 | QAD .BLKW 100 |
| ① ▶ | x306D | x0028 | 40 | QAD .BLKW 100 |
| ① ▶ | x306E | x0025 | 37 | QAD .BLKW 100 |
| ① ▶ | x306F | x0026 | 38 | QAD .BLKW 100 |
| ① ▶ | x3070 | x0028 | 40 | QAD .BLKW 100 |
| ① ▶ | x3071 | x0027 | 39 | QAD .BLKW 100 |
| ① ▶ | x3072 | x0028 | 40 | QAD .BLKW 100 |
| ① ▶ | x3073 | x0027 | 39 | QAD .BLKW 100 |
| ① ▶ | x3074 | x002A | 42 | QAD .BLKW 100 |
| ① ▶ | x3075 | x0028 | 40 | QAD .BLKW 100 |
| ① ▶ | x3076 | x0029 | 41 | QAD .BLKW 100 |
| ① ▶ | x3077 | x002B | 43 | QAD .BLKW 100 |
| ① ▶ | x3078 | x002C | 44 | QAD .BLKW 100 |
| ① ▶ | x3079 | x002B | 43 | QAD .BLKW 100 |
| ① ▶ | x307A | x002B | 43 | QAD .BLKW 100 |
| ① ▶ | x307B | x002E | 46 | QAD .BLKW 100 |
| ① ▶ | x307C | x002C | 44 | QAD .BLKW 100 |
| ① ▶ | x307D | x002D | 45 | QAD .BLKW 100 |
| ① ▶ | x307E | x002F | 47 | QAD .BLKW 100 |
| ① ▶ | x307F | x002F | 47 | QAD .BLKW 100 |
| ① ▶ | x3080 | x002E | 46 | QAD .BLKW 100 |
| ① ▶ | x3081 | x0030 | 48 | QAD .BLKW 100 |
| ① ▶ | x3082 | x0030 | 48 | QAD .BLKW 100 |
| ① ▶ | x3083 | x0030 | 48 | QAD .BLKW 100 |

|     |       |       |    |               |
|-----|-------|-------|----|---------------|
| ① ▶ | x3084 | x0030 | 48 | QAD .BLKW 100 |
| ① ▶ | x3085 | x0030 | 48 | QAD .BLKW 100 |
| ① ▶ | x3086 | x0030 | 48 | QAD .BLKW 100 |
| ① ▶ | x3087 | x0040 | 64 | QAD .BLKW 100 |
| ① ▶ | x3088 | x0029 | 41 | QAD .BLKW 100 |
| ① ▶ | x3089 | x0034 | 52 | QAD .BLKW 100 |
| ① ▶ | x308A | x0036 | 54 | QAD .BLKW 100 |

ICS-2 循序渐进

提交时间: 11/25/2025, 3:03:35 AM  
评测完成时间: 11/25/2025, 3:03:35 AM

### 评测总结

本次评测总计使用了 10 个测试点, 您的程序通过了 10 个。

### 测试点信息

|    |               |   |
|----|---------------|---|
| #0 | 通过 / Accepted | < |
| #1 | 通过 / Accepted | < |
| #2 | 通过 / Accepted | < |
| #3 | 通过 / Accepted | < |
| #4 | 通过 / Accepted | < |
| #5 | 通过 / Accepted | < |
| #6 | 通过 / Accepted | < |
| #7 | 通过 / Accepted | < |
| #8 | 通过 / Accepted | < |
| #9 | 通过 / Accepted | < |

#### 四 . 数据分析:

由  $N=100$  得到的  $Q$  序列可以看出,  $Q(N)$ 是振荡的, 且基本符合线性增长, 因此不会出现斐波那契数列的情况。

#### 五 . 实验收获:

1. 强化了对常见加载和存储方式的理解
2. 熟悉了 assembly 语言的基本写法
3. 掌握了 assembly 语言里的内存分配和书写规范