ICS LAB3 report

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Part1.Optimization ideas

Idea one:Matrix rapid power

利用矩阵快速幂，可以优化到$\log_2^n$层循环，可以占用较小的内存空间及循环次数实现求解，但计算矩阵乘法代码行数开销较大。

Idea two:Table look-up

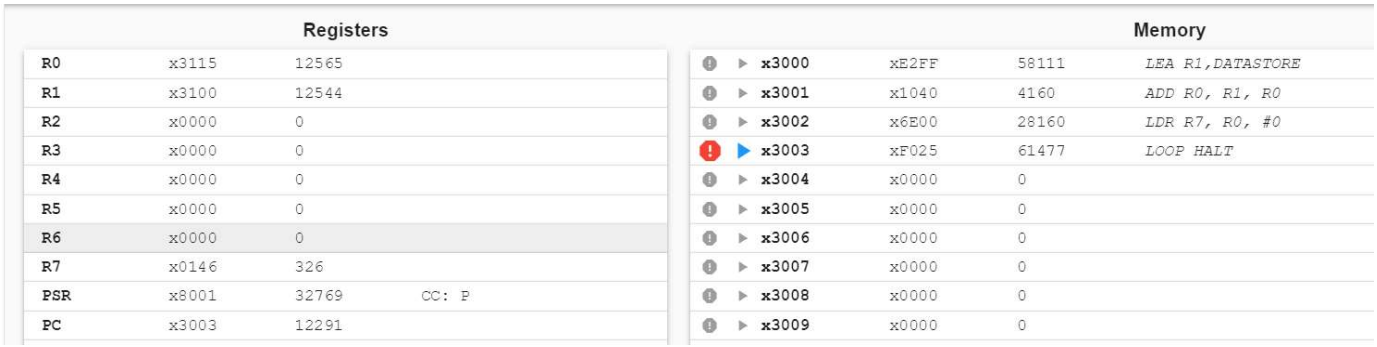
打表。平均行数：3

Idea three:Consider loop node

发现从20开始，之后每隔128位数循环一次，如F[21]=F[149]=326。可以借此将范围缩小至0~148内，可缩小Idea1时间开销，缩小Idea2空间开销。

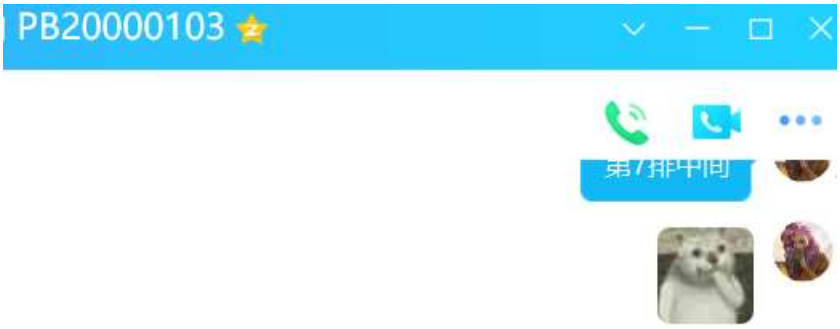
Part2.Photo display

n=21:



Part3.Connect with the classmate

I got in touch with the classmate that with student number PB20000103.



Part4.summarize

It was a very interesting experiment!