Lecture 1

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Lecture 1

Section 1

• Some very cool notes

Section 2

See awesome math below

$$e^{i\pi} = -1$$

Section 3

(!) INFO

The code block below is very important. It has highlighting, file name, and line highlighting!

/src/fastInvSqrt.c

```
float Q_rsqrt( float number )

{
    long i;
    float x2, y;
    const float threehalfs = 1.5F;

    x2 = number * 0.5F;
    y = number;
    i = * ( long * ) &y;
    hacking

i = 0x5f3759df - ( i >> 1 );
    y = * ( float * ) &i;
// what the fuck?
```

```
    y = y * ( threehalfs - ( x2 * y * y ) ); // 1st iteration
    // y = y * ( threehalfs - ( x2 * y * y ) ); // 2nd iteration, this can be removed
    return y;
```

Imported Code Files

```
quizDate.ts

const quizDate = (A: any[]) => {
    if (A.length == 1) return A[0];
    else if (A.length == 2)
        if (A[0] == A[1]) return A[0];
    else return false;

const mid = A.length / 2;
    const B = quizDate(A.slice(0, mid));
    const C = quizDate(A.slice(-mid));

if (!B && C) return C;
    else if ((!C && B) || B == C) return B;

return false;
};

console.log(quizDate([1, 3, 1, 3, 1, 1, 3, 1]));
```