

Competitive Programming Reference

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Extras

Definitions

```
#if defined(_USE_MATH_DEFINES) && !defined(_MATH_DEFINES_DEFINED)
#define _MATH_DEFINES_DEFINED
// e
#define M_E      2.71828182845904523536
// log2(e)
#define M_LOG2E   1.44269504088896340736
// log10(e)
#define M_LOG10E  0.434294481903251827651
// ln(2)
#define M_LN2     0.693147180559945309417
// ln(10)
#define M_LN10    2.30258509299404568402
// pi
#define M_PI      3.14159265358979323846
// pi/2
#define M_PI_2    1.57079632679489661923
// pi/4
#define M_PI_4    0.785398163397448309616
// 1/pi
#define M_1_PI    0.318309886183790671538
// 2/pi
#define M_2_PI    0.636619772367581343076
// 2/sqrt(pi)
#define M_2_SQRTPI 1.12837916709551257390
// sqrt(2)
#define M_SQRT2   1.41421356237309504880
// 1/sqrt(2)
#define M_SQRT1_2 0.707106781186547524401
#endif
```

Read Data From Files

```
freopen("input.txt", "r", stdin);
freopen("output.txt", "w", stdout);
```

Template

```
#include <bits/stdc++.h>

#define endl "\n"
#define fast_io ios_base::sync_with_stdio(false);cin.tie(NULL);

using namespace std;

typedef long long int lli;

int main(){

    return 0;
}
```

Competitive Programming Reference

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I met the competitive programming at my university "The Superior School of Computer Sciences of the National Polytechnic Institute", thanks to a club within the school called "algorithmic club", where I met ICPC and loved competitive programming, this group of people at I belong has offered me everything I know now, we always pass all our knowledge to the following generations, and we all contribute to our community to achieve more and more. I will always be grateful to this group of people who changed my life

Special thanks:

