



← Notes

▲ Fast IO Optimization in C++

15

C++

C++ Language

C++11

Competitive Programming

2

Lets say you have take an input of 10^5 numbers, there are many methods

1. `std::cin>>x`

you can use `std::cin` which is a standard method to obtain input from STDIN how ever there are better methods

2. `scanf("%d",&x);`

`scanf` / `printf` are roughly thrice as fast as the `cin/cout`

3. FAST IO

```
void fastscan(int &x)
{
    bool neg=false;
    register int c;
    x =0;
    c=getchar();
    if(c=='-')
    {
        neg = true;
        c=getchar();
    }
    for(;(c>47 && c<58);c=getchar())
        x = (x<<1) + (x<<3) +c -48;
    if(neg)
        x *=-1;
}

fastscan(x);
```

this is one of the fastest way to take an integer input from STDIN this is around 10 times faster than `scanf()` This is very useful in competitive programming

NOTE : You can add `ios_base::sync_with_stdio(false);` in `main()` function to make

your cin and cout faster

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