

Algorithm Library

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1 图论

2 String

3 黑科技

3.1 输入输出外挂

3.1.1 简单快读

```
// 整数 (int, long long)
template<typename T>
void Read(T &r){
    char c;
    while(c=getchar()){
        if(isdigit(c)){
            r=c^0x30;break;
        }
    }
    while(isdigit(c=getchar()))
        r=r*10+(c^0x30);
}
```

3.1.2 真·快速读入

```
#include<cstdio>
//BUAA 输入挂, 可读 __int128
namespace FastIO {
    #define BUF_SIZE 10000000 //缓冲区大小可修改
    bool IOError = 0; //IOError == false 时表示处理到文件结
    ↪ 尾
    inline char NextChar() {
        static char buf[BUF_SIZE], *p1 = buf +
        ↪ BUF_SIZE, *pend = buf + BUF_SIZE;
        if(p1 == pend) {
            p1 = buf;
            pend = buf + fread(buf, 1, BUF_SIZE,
            ↪ stdin);
            if(pend == p1) {
                IOError = 1;
                return -1;
            }
        }
        return *p1++;
    }
    inline bool Blank(char c) {
        return c == ' ' || c == '\n' || c == '\r' || c
        ↪ == '\t';
    }
}
```

```

template<class T> inline void Read(T &x) {
    char c;
    while(Blank(c = NextChar()));
    if(!IOError) {
        for(x = 0; '0' <= c && c <= '9'; c =
            ↪ NextChar())
            x = (x << 3) + (x << 1) + c -
            ↪ '0';
    }
}

```

/*
读入时候这样写：

```

int x;
FastIO::Read(x);

```

若要处理到文件末尾可以这样写：

```

while(FastIO::Read(x), FastIO::IOError == 0);
*/

```