

## 读入优化

```
1  template<typename T>
2  void read(T &x){
3      x = 0;
4      int fl = 1;
5      char ch = getchar();
6      while(ch < '0' || ch > '9'){
7          if(ch == '-') fl = -1;
8          ch = getchar();
9      }
10     while(ch >= '0' && ch <= '9'){
11         x = (x << 1) + (x << 3) + ch - '0';
12         ch = getchar();
13     }
14     x *= fl;
15 }
16 template <typename T, typename... Args>
17 inline void read(T& t, Args&... args){
18     read(t); read(args...);
19 }
```

```
1  #define gc()(is==it?it=(is=in)+fread(in,1,Q,stdin),(is==it?EOF:*is++):*is++)
2  const int Q=(1<<24)+1;
3  char in[Q],*is=in,*it=in,c;
4  void read(long long &n){
5      for(n=0;(c=gc())<'0' || c>'9');
6      for(;c<='9'&& c>='0';c=gc())n=n*10+c-48;
7  }
```