



**KEEP
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C++ STREAMS**

Stream libraries

Stream libraries

- `iostream` – [**I**nput / **O**utput] stream
 - [object] `std::cin` – **C**onsole **I**nput
 - [object] `std::cout` – **C**onsole **O**utput

Stream libraries

- `iostream` – **I**nput / **O**utput stream
 - [object] `std::cin` – **C**onsole **I**nput
 - [object] `std::cout` – **C**onsole **O**utput
- `fstream` – **F**ile stream
 - [type] `std::ifstream` – **I**nput **F**ile stream
 - [type] `std::ofstream` – **O**utput **F**ile stream

std::cin / std::cout usage

```
int numerator;  
int denominator;  
  
std::cin >> numerator >> denominator;  
  
std::cout << "Div: " << (numerator / denominator) << ", "  
          << "mod: " << (numerator % denominator) << std::endl;
```

std::ifstream / std::ofstream usage

```
#include <fstream>
```

```
// ...
```

```
std::ifstream fin("input.txt");  
std::ofstream fout("output.txt");
```

```
int numerator;  
int denominator;
```

```
fin >> numerator >> denominator;
```

```
fout << "Div: " << (numerator / denominator) << ", "  
      << "mod: " << (numerator % denominator) << std::endl;
```

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