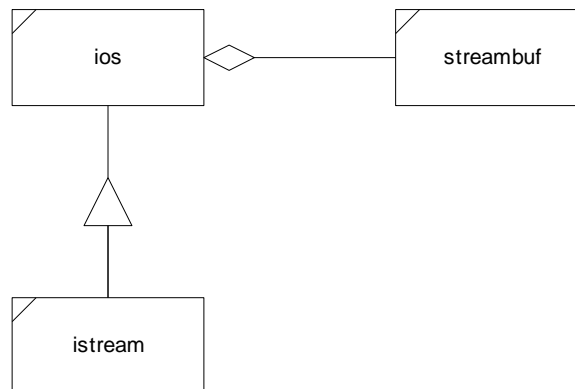


# **Reference for std::iostream Library**

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CSE687 – Object Oriented Design  
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## istreams <iostream>



### istream

```

istream(streambuf*)
~istream( )
istream& seekg(streampos);
istream& seekg(streamoff,
seek_dir)
streampos tellg()
istream& get(char*, int, char)
istream& read(char*, int)
istream& getline(char*, int,
char)
istream& get(streambuf&,
char)
istream& get(char&)

int get( )

int peek( )
int gcount( )
istream& putback(char)
istream& ignore(int, int)
istream& operator>>(xxx)
  
```

### ios

```

ios(streambuf*)
~ios( )
streambuf* rdbuf( )
long flags( )

long flags(long)
long setf(long, long)
long unsetf(long)
int width(int)

char fill(char)

int precision(int)

istream* tie(istream*)

int eof( )
int good( )
void clear( )
int operator!( )
static void sync_with_stdio( )
  
```

### streambuf

```

streambuf( )
streambuf(char*, int)
~streambuf( )
streambuf* setbuf(char*, int)

int sgetc( )
void stoss( )
int sbumpc( )
int sputc(int)

int out_waiting( )

streampos
seekpos(streampos, int)
streampos seekoff(streamoff,
ios::seek_dir, int)
  
```

Formatting flags <iostream>

skipws	left	right	Internal	dec	oct
hex	showbase	showpoint	Uppercase	showpos	scientific
fixed	unitbuf	stdio			

io\_state <iostream>

goodbit	eofbit	Failbit	badbit
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open\_mode <iostream>

in	out	ate	App	trunc	nocreate
noreplace	binary				

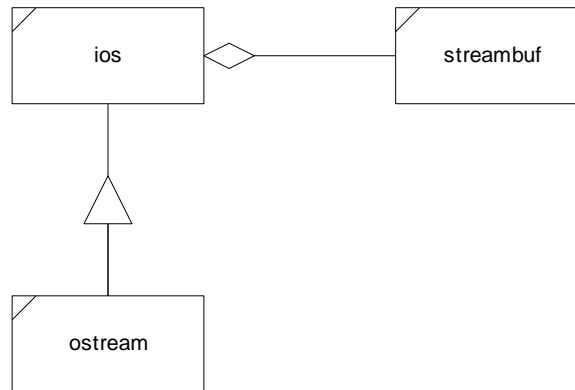
seek\_dir <iostream>

beg	cur	End
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Manipulators <iostream> or <iomanip>

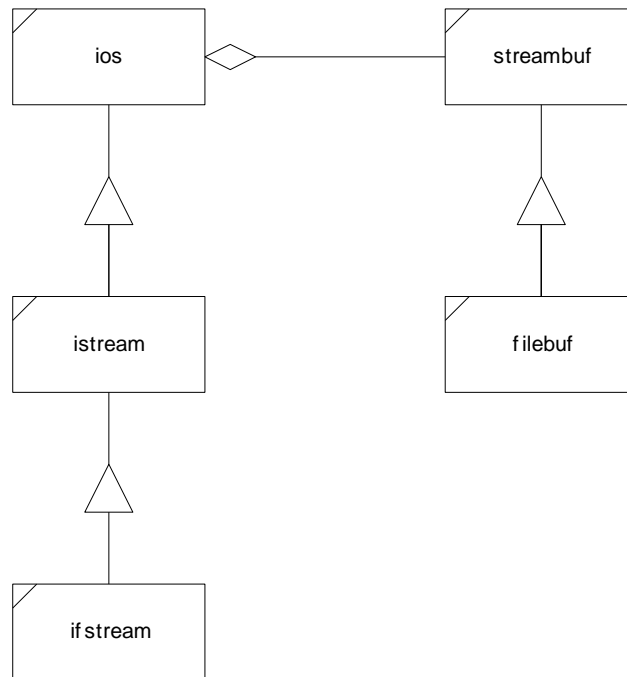
dec	oct	hex	endl	ends	flush
ws	(re)setiosflags	setbase	Setfill	setprecision	setw
(no)boolalpha	(no)showbase	(no)showpoint	(no)showpos	(no)skipws	(no)uppercase
internal	left	right	fixed	scientific	

## ostreams <iostream>



<b>ostream</b>	<b>ios</b>	<b>streambuf</b>
ostream(streambuf*) ~ostream( ) ostream& seekp(streampos); ostream& seekp(streamoff, seek_dir) streampos tellp() ostream& put(char) ostream& write(char*, int) ostream& flush( ) ostream& operator<<(xxx)	ios(streambuf*) ~ios( ) streambuf* rdbuf( ) long flags( )  long flags(long) long setf(long, long) long unsetf(long) int width(int) char fill(char) int precision(int)  ostream* tie(ostream*)  int eof( ) int good( ) void clear( ) int operator!( ) static void sync_with_stdio( )	streambuf( ) streambuf(char*, int) ~streambuf( ) streambuf* setbuf(char*, int)  int sgetc( ) void stoss( ) int sbumpc( ) int sputc(int) int out_waiting( ) streampos seekpos(streampos, int) streampos seekoff(streamoff, ios::seek_dir, int)

## ifstreams <fstream> and <iostream>



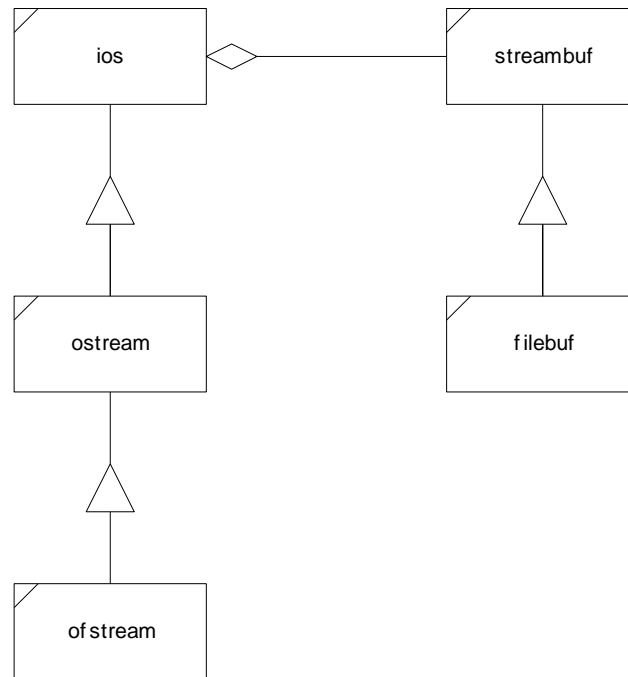
### ifstream

```
ifstream( )
ifstream(char*, int, int)
ifstream(int)
ifstream(int, char*, int)
~ifstream( )
filebuf* rdbuf( )
void open(char*, int, int)
void attach(int)
void close( )
int fd( )
int is_open( )
```

### filebuf

```
filebuf( )
filebuf(int)
filebuf(int, char* int)
~filebuf( )
int is_open( )
int fd( )
filebuf* open(char*, int, int)
filebuf* close( )
filebuf* attach(int)
streambuf* setbuf(char*, int)
streampos seekoff(streamoff,
ios::seek_dir, int)
```

## ofstreams <fstream> and <iostream>



### ofstream

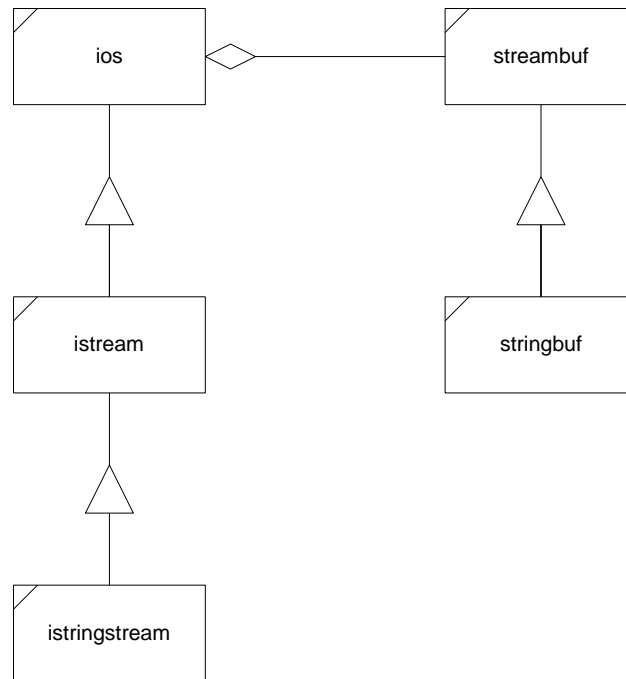
```
ofstream( )
ofstream(char*, int, int)
ofstream(int)
ofstream(int, char*, int)
~ofstream( )
filebuf* rdbuf( )
void open(const char*, int, int)
void close( )
streambuf* setbuf(char*, int)
int setmode(int)
void attach(int)

int fd( )
int is_open( )
```

### filebuf

```
filebuf( )
filebuf(int)
filebuf(int, char* int)
~filebuf( )
int is_open( )
int fd( )
filebuf* open(char*, int, int)
filebuf* close( )
filebuf* attach(int)
streambuf* setbuf(char*, int)
streampos seekoff(streamoff,
ios::seek_dir, int)
```

## istringstream <sstream>



### istringstream

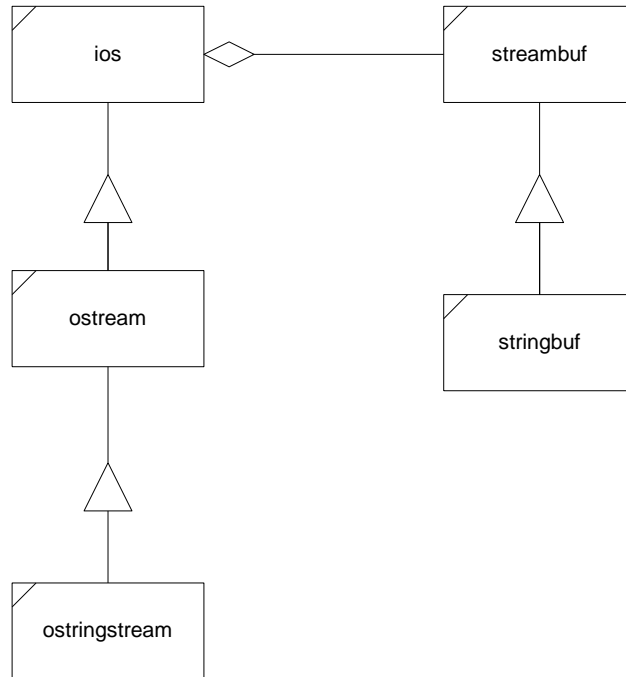
```
istringstream(ios::openmode
mode = ios::in)
istringstream(const string &s,
ios::openmode mode = ios::in)

~istringstream()
stringbuf *rdbuf()
string str()
Void str(const string& s)
```

### stringstream

```
stringstream(ios::openmode
mode=ios::in | ios::out)
stringstream(const string &s,
ios::openmode mode =
ios::in | ios::out)
~stringstream()
string str()
void str(const string &s)
```

## **ostringstream <sstream>**



### **ostringstream**

```
ostringstream(ios::openmode
mode=ios::out)
ostringstream(const string &s,
ios::openmode mode=ios::out)
```

```
~ostringstream( )
stringbuf* rdbuf()
string str()
void str(const string& s);
```

### **stringstream**

```
stringstream(ios::openmode
mode=ios::in | ios::out)
stringstream(const string &s,
ios::openmode mode =
ios::in | ios::out)
~stringstream()
void str(const string &s)
string str()
```



