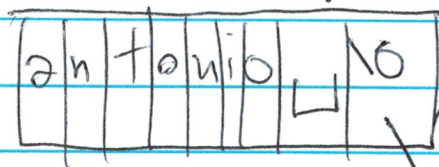


STRING $\left\{ \begin{array}{l} \text{C-style string} \\ \text{string class C++} \\ \text{QString with Qt} \end{array} \right.$

"antonio_"



C-style `char *s1 = "This _", *s2 = "is _ _",`
`*s3 = "string. _";`

`char *concat = new char (strlen (s1) +`
`strlen (s2) +`
`strlen (s3) + 1);`

`strcpy (concat, s1);`
`strcat (concat, s2);`
`strcat (concat, s3);`

...

`delete concat;`

```
#include <string>
#include <iostream>
```

```
using namespace std;
```

```
...
```

```
string s1 ("This"),
        s2 ("is a"),
        s3 ("string");
```

```
s1 += s2;
string s4 = s1 + s3;
```

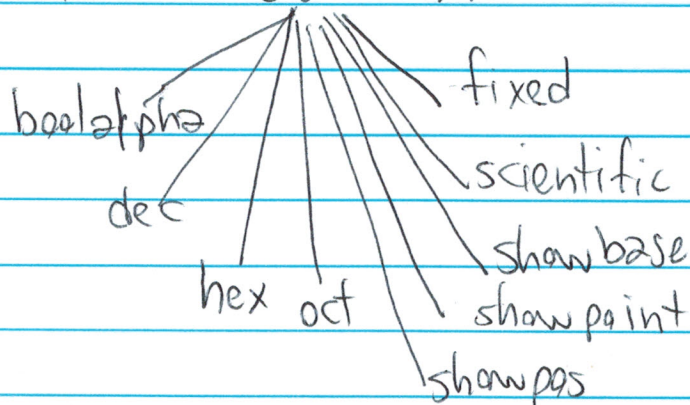
```
getline (cin, s2);
```

```
cout << s2.length() << endl;
cout << ... << flush;
```

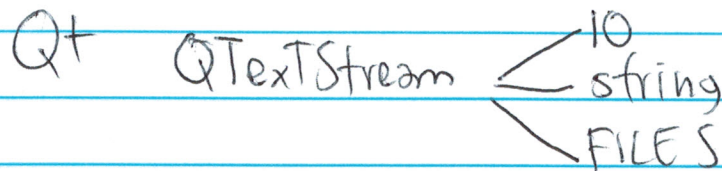
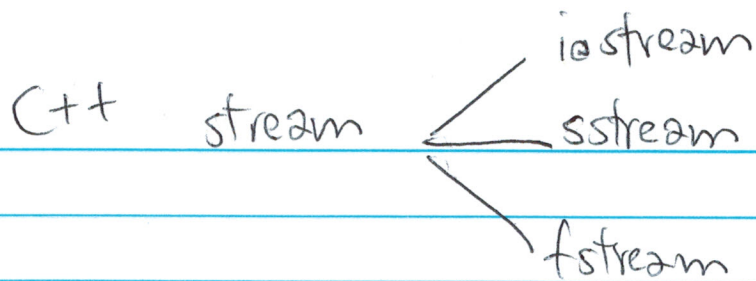
manipulators

1.9

FORMAT FLAGS MANIPULATORS (STREAM)



```
cout << FLAG << double Value << endl;
```



ex 1.11

IO

```

int lucky = 7;
float pi = 3.14;
double e = 2.71;
  
```

```

cout << lucky << '\t'
      << pi << '\t'
      << e << endl;
  
```

STRING

```

ostringstream strbuf;
  
```

```

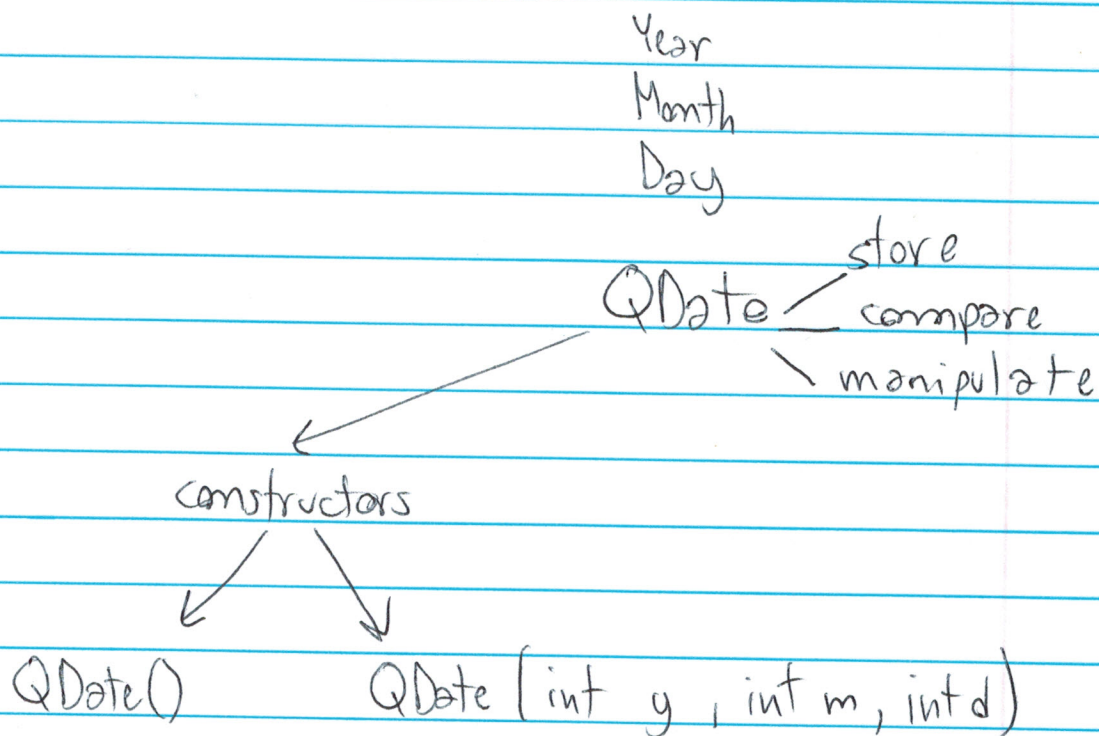
strbuf << lucky << '\t'
        << pi << '\t'
        << e << endl;
  
```

FILE

```

ofstream outf;
outf.open("filename");
outf << lucky << '\t' << '\n'
      << pi << '\t' << '\n'
      << e << endl;
outf.close();
  
```


3.2.1 Stream and Date



STATIC QDate::currentDate()
QDate::fromString(const QString & string,

FORMAT);

QDateFormat

QString

QDate::addDays(qint64 ndays)
QDate::addMonths(int nm)
QDate::addYears(int ny)

EXCEPTIONS Ezust Ed1 CHAP21

```
try {  
    ... // code that generates EX  
}  
catch (ExceptionType & refName) {  
    ...  
}  
catch (                ) {  
    ...  
}
```

```
double myfunction (char param) throw (int) {  
}
```

↓
throws an
exception

CHAP 4

Sec 4.1

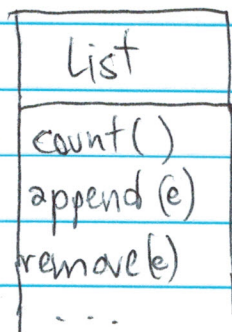
CONTAINERS

AGGREGATES

COLLECTIONS

↓
ARRAY

↓
LIST TREES HASH TABLES



int →

append (e: int)
remove (e: int): int&

double →

append (e: double)
remove (e: double): double&

myclass →

append (e: myclass&)

LIST → QList

remove (e: myclass&): double&

QList < int >

QList < double >

QList < myclass >