Tell me the output of the program to the right. Put your answer all on one line -- if there's a newline in the program's output, simply replace it with a space, or even no space. Both will be fine.

So, for example, if the output is:



Then your answer should be "ABC" or "A B C".

```
void proc1(Fred f, int i)
#include <iostream>
using namespace std;
                               cout << "X" << endl;</pre>
class Fred {
                               if (i != 0) throw (string) "E";
  public:
    Fred();
    Fred(const Fred &f);
                             void proc2(const Fred &f)
    ~Fred();
};
                               cout << "Y" << endl;</pre>
Fred::Fred()
                             int main()
  cout << "A" << endl;
                               Fred f;
                               Fred *f2;
Fred::Fred(const Fred &f)
                               try {
  cout << "B" << endl;</pre>
                                 proc1(f, 0);
                                 proc2(f);
                                 f2 = new Fred;
Fred::~Fred()
                                 proc1(f, 1);
                               } catch (const string &s) {
  cout << "C" << endl;</pre>
                                 cout << s << endl;</pre>
                                 return 0;
                               cout << "F" << endl;</pre>
                               return 0;
```

Answer to the Clicker Question

- The very first thing that happens is the f's constructor is called, because it has been declared inside **main**(). That prints "A".
- Next "proc1(f,0)" is called. That calls the copy constructor for the parameter. It prints "B".
- "proc1(f,0)" prints "X".
- "proc1(f,0)" tries the if statement, which is false. It returns, calling the destructor for its parameter: "C".
- "proc2(f)" is called. It doesn't call a constructor, because its parameter f is a reference parameter. It prints "Y" and returns.
- "f2 = new Fred" is called. That calls the constructor for "Fred". It prints "A"
- "proc1(f,1)" is called. That calls the copy constructor for the parameter. It prints "B".
- "proc1(f,1)" prints "X".
- "proc1(f,1)" throws the exception, which makes the procedure return. Before returning it calls the destructor for its parameter f: "C".
- The exception is caught in the "catch" statement. That prints "E".
- The "catch" statement now returns, which calls the destructor for main's f. That prints "C".
- You'll note that the destructor for f2 is not called -- you would have to call "delete" for that.

The answer is "ABXCYABXCEC".