1. Consider the following complete program:

```cpp
#include "std_lib_facilities.h"
void doThis(ifstream& ifs);
void doThat(ifstream& ifs);
int main() {
   cout << "Enter the name of a file to convert to lower case: ";
   string fname;    cin >> fname;
   ifstream fs(fname);
   doThis(fs);
   fs.clear();    fs.seekg(0, std::ios::beg);
   doThat(fs);
}
void doThat(ifstream& ifs) {
   cout << "Enter output file name: ";
   string output;
   cin >> output;
   ofstream ofs(output.c_str());
   if (!ofs) error("can't open output file ", output);
   char ch;
   while (ifs.get(ch)) {
      if (isalpha(ch)) ch = tolower(ch);
      ofs << ch;
   }
}
void doThis(ifstream& ifs) {
   char c{ 0 };
   ifs >> c;
   char* buffer = &c;
   ifs.unget();
   ofstream ofs("outputFile.txt");
   char chin{ 0 };
   while (ifs.read(buffer, 1)) {
      if (tolower(*buffer) == 32) ofs << ' ';
      ofs << char(tolower(*buffer));
   }
}
```

(a) What type of variable is `buffer` in `doThis()`? ow is it initialized¿

(b) What is happening on line 28? Why is this done?

(c) What is the meaning of the condition for the `while` loop on line 31? How can it turn out to be `false`?

(d) What is the meaning of the conditional on line 32? How can it turn out to be `true`?

(e) Compare that `while` loop of `doThat()` with the `while` loop of `doThis()`. How is it different? How is it the same?