Lab 1

Data Structures C++ for C Coders

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C vs C++ const cout new & delete reference

Lab 1: Convert a C program cprog.cpp to cplus.cpp using C++

```
// lab01 - cprog.cpp
#include <stdio.h>
#define N 40
void sum(int d[], int n, int* p) {
 *p = 0;
 for(int i = 0; i < n; ++i)
    *p = *p + d[i];
int main() {
  int total = 0;
  int data[N];
  for(int i = 0; i < N; ++i) data[i] = i;
  sum(data, N, &total);
  printf("Total is %d\n", total);
  return 0;
```

- Use a reference operator, but not a pointer.
- Use const, but not #define.
- Use new and delete operators.
- Use cout & endl instead of printf().
- Do not use "using namespace std;".
- Don't change the return type of sum().
- Submit cplus.cpp to Piazza lab1 folder by the end of the day assigned.

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