## C:/AlexWork/AlexWork/AlexTeaching/MSU/CS335/AlexSlides-Online/02-Constants/6 ExampleProgram/Constant

```
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
* File:
          Employee.h
* Author: alexliu
* Created on January 12, 2017, 11:40 PM
#ifndef EMPLOYEE H
#define EMPLOYEE H
class Employee{
protected:
   string m_FirstName;
   string m LastName;
   string m DepartmentName;
   unsigned short m_HiringYear;
public:
   Employee(const string& firstName, const string& lastName, const string& departmentName,
const unsigned short hireYear){
       m FirstName = firstName;
        m LastName = lastName;
       m DepartmentName = departmentName;
       m HiringYear = hireYear;
   string getFirstName() const{
       return m_FirstName;
```

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## $C:/A lexWork/AlexWork/AlexTeaching/MSU/CS335/AlexSlides-Online/02-Constants/6\_Example Program/Constants/AlexBork/AlexB$

```
string getLastName() const{
       return m_LastName;
   string getDepartmentName() const{
       return m_DepartmentName;
   unsigned short getHiringYear() const{
       return m_HiringYear;
   void setFirstName(const string& firstName) {
        m FirstName = firstName;
   void setLastName(const string& lastName) {
       m LastName = lastName;
   }
   void setDepartmentName(const string& departmentName) {
       m_DepartmentName = departmentName;
   }
   void setHiringYear(const unsigned short hiringYear) {
       m_HiringYear = hiringYear;
#endif /* EMPLOYEE H */
```

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## C:/AlexWork/AlexWork/AlexTeaching/MSU/CS335/AlexSlides-Online/02-Constants/6 ExampleProgram/Constant

```
#include <cstdlib>
#include <iostream>
using namespace std;
#include "Employee.h"
#define BUFFERSIZE 100
using namespace std;
void printBufferSize(unsigned int buffersize){
    cout<<buffersize<<endl;</pre>
void printBuffersizePointer(const unsigned int* bufferSizePtr){
    cout<<*bufferSizePtr<<endl;</pre>
bool hireEarlier(const Employee& emp1, const Employee& emp2){
    return emp1.getHiringYear() < emp2.getHiringYear();</pre>
int main(int argc, char** argv) {
    const unsigned int buffersize=100;
    printBuffersizePointer(&buffersize);
   const Employee JohnSmith("John", "Smith", "Sales", 2010);
   const Employee AliceDoe("Alice", "Doe", "Sales", 2016);
   cout<<hireEarlier(JohnSmith, AliceDoe)<<endl;</pre>
   cout<<JohnSmith.getFirstName()<<endl;</pre>
   return 0;
```

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