

Answer on Question #55488, Programming / C++ | for completion

```
#include <string>
```

```
#include <vector>
```

```
enum days
```

```
{
```

```
    MONDAY,
```

```
    TUESDAY,
```

```
    WEDNESDAY,
```

```
    THURSDAY,
```

```
    FRIDAY,
```

```
    SATURDAY,
```

```
    SUNDAY
```

```
};
```

```
class faculty
```

```
{
```

```
public:
```

```
    faculty();
```

```
    void add_subject(std::string name);
```

```
private:
```

```
    std::string name;
```

```
    std::string qualification;
```

```
    std::vector<std::string> subjects;
```

```
};
```

```
class regular_faculty : public faculty
```

```
{
```

```
public:
```

```

        regular_faculty();

private:

    std::size_t num_of_subjects;

    std::vector<days> avaiable_days;

    std::vector<days> consulting_days;

    std::string name_of_institute;

};

```

```

class visiting_faculty : public faculty
{
public:

    visiting_faculty();

private:

    std::size_t num_of_subjects;

    std::vector<days> avaiable_days;

    std::vector<days> consulting_days;

    std::string name_of_institute;

};

```

```

faculty::faculty()

    : name()

    , qualification()

    , subjects()

    {}

```

```

void faculty::add_subject(std::string name)

{

    subjects.push_back(name);

}

```

```

regular_faculty::regular_faculty()
  : faculty()
  , num_of_subjects(3)
  , avaiable_days()
  , consulting_days()
  , name_of_institute()
{
  avaiable_days.push_back(days::MONDAY);
  avaiable_days.push_back(days::TUESDAY);
  avaiable_days.push_back(days::WEDNESDAY);
  avaiable_days.push_back(days::THURSDAY);
  avaiable_days.push_back(days::FRIDAY);
  avaiable_days.push_back(days::SATURDAY);
  avaiable_days.push_back(days::SUNDAY);

  add_subject("Math");
  add_subject("Biology");
  add_subject("Astronomy");
}

```

```

visiting_faculty::visiting_faculty()
  :faculty()
  , num_of_subjects(1)
  , avaiable_days()
  , consulting_days()
  , name_of_institute()
{
  avaiable_days.push_back(days::TUESDAY);

```

```
avaiable_days.push_back(days::WEDNESDAY);
```

```
consulting_days.push_back(days::FRIDAY);
```

```
add_subject("Astronomy");
```

```
}
```