

Monday, March 15, 2021

Today:

C++ intro/recap questions
work on midterm project
(exercises resume Wednesday)

Recap Qs

1) C: low level

C++: high level, object-oriented (classes/object),
STL/generics

Midterm project: due by
Thursday 3/24 by 11pm

slido.com
jhui01

2) namespace
e.g. std

```
std::string  
std::vector  
std::map
```

3)

```
#include <string>  
int main() {  
    std::string s;  
    s = "Hello";  
}
```

```
#include <string>  
using std::string;  
int main() {  
    string s;  
    s = "Hello";  
}
```

avoid using in headers

4)

```
int x;
std::cin >> x;
std::cout << x;
```

"extraction" ↓
↑
"insertion"

operator overloading

```
std::istream & operator >>(  
    std::istream & in,  
    int & v );
```

5, 6)

C++ strings

- any length!
- automatic storage management
- is object
- assignable!
- pass by value, return by value
- no NUL terminator

