

Lecture 11: Better strings in C

CSE 29: Systems Programming and Software Tools

Olivia Weng

Announcements

- Problem set 3 released and due Wednesday, July 23rd at 10am PT
- Exam 2
 - Sign up to take your exam on prairietest.com!

Demo

- Examining stack vs heap addresses

Strings in Python are great.

How could we implement a **String** class in C?

How could we implement a String class in C?

```
struct string {  
    uint64_t length; // = strlen(contents)  
    char *contents; // has space for length + null terminator  
};
```

```
typedef struct string String;
```

Demo

```
struct string new_string(char *init_contents);
```

```
struct string plus(struct string s1, struct string s2);
```