

CSC209 Week 4 Notes

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Introduction to arrays in C 1 of 3

- Array

- **Syntax:** <TYPE >VAR_NAME[ARRAY_SIZE]

```
1  #include <stdio.h>
2
3  int main() {
4      float daytime_high[4];
5  }
6
```

Introduction to arrays in C 2 of 3

- Accessing Array Elements

- C doesn't check if an array access is within the bounds of array
- Overwrites memory location if exists

```
1  #include <stdio.h>
2
3  int main() {
4      float daytime_high[4] = {1,2,3};
5      daytime_high[5] = 999;
6  }
7
```

- Segmentation fault occurs if suitable memory location doesn't exist.

```
1  #include <stdio.h>
2
3  int main() {
4      int daytime_high[4] = {1,2,3};
5      daytime_high[3000] = 999;
6  }
7
```