# «C++ for C Programmer» Notes

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# Week 1

□ From C to C++	
С	C++
#include <stdio.h></stdio.h>	#include <cstdio></cstdio>
	using namespace std
#define PI 3.14	<pre>const float PI = 3.14</pre>
#define max(a,b) ()	<pre>inline max(a, b) {}</pre>

# template<class T> inline void swap(T &i, T &j) { T tmp = i i = j j = tmp }

Week 2

**■** Function default parameter

T sum (T arr[], int count, T s = 0)

## **■ Simple I/O functions**

cout << "Print something" << endl</pre>

cin >> input

## ■ Cast

### reinterpret cast :

dynamic cast : used with object

const cast : cast away
const-ness

## ■ Function call

Call by value

Call by pointer

## Call by reference

☐ An Introduction to Reference

```
template <class T1, class T2>
void copy (const T1 src[], T2 dest[], int size) {
  for (int i = 0; i < size; ++i) {
    dest[i] = static_cast<T2>(src[i]);
  }
}
```

```
inline void swap(int &i, int &j) {
  int tmp = i
  i = j
  j = tmp
}
inline void swap(double &i, double &j) {
  double tmp = i
  i = j
  j = tmp
}
```

### Cheatographe

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### Cheat Sheet

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