#### C, C++, DSA in depth

#### Initializer



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## Agenda

- 1) Initialization list
- 2) Initializing fields
- 3 Initializing const members
- 4) Initializing reference variables

# Initializers

Also knewn as initializer list.

It allows you which constructor is called and what arguments that constructor receives.

If you have a reference or a const field or it one of the clame used does not have a default constructor, you must use an initialization list

```
public:

Class Name (args): initialization list

R
```

### Using initialization list to initialize fields

class 4 fields private: int a, b, c; public: A(): a(5),b(6),c(8) A(int a, int b, intc): a(a), b(b), c(c) 5 7 Resolving name conflict 3'

## Initializing Const member

class A & private:

const member variable can only be initialized using initializer list.

You cannot modify const Const int K; member variable.

public.

{

K=10; EYYOY | A(): K(10)

Correct

### Initializing reference variable

class A Reference variable int &x; int Ki public: A(1): K(5), x(k)x (\*new int)

### Where you can use intializer list

- 1) To initialize reference member vaniable
- 2) To initialize const member vouiable
- 3 To initialize data members (fields)
  - (4) To invoke bone class constructor