

2. Function Pointers, Callbacks

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FUNCTION POINTERS

```
int (*a) (int, int);
```

// a is a pointer to a function that returns int after taking two integers as parameters

```
int func (int, int);
```

a = func; // function name gives address of function; &func also works

a(7,5); // you can call the function with the pointer name

(*a)(7,5); // dereferencing the pointer like so also works

CALLBACK

```
int func (int a, int b)
{
    return a+b;
}
```

```
int oho (int a, int b, int (*func) (int, int))
{
    return (*func)(a,b);
}
```

allows you to pass the function name

```
printf ("%d", oho(1,2, func));
```

MAP FUNCTION

Syntax: map (function, iterable)