


## CSE 101 Slide Set 9

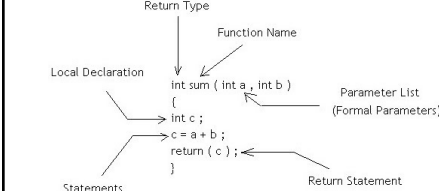
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## Functions and Arguments





`int sum ( int a , int b )  
{  
    int c ;  
    c = a + b ;  
    return ( c ) ;  
}`


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```
#include <stdio.h>
int power(int m, int n);

int main(){
    int i;
    for (i = 0; i < 10; ++i){
        printf("%d %d %d\n", i,    power(2,i), power(-3,i));
    }
    return 0;
}

int power(int base, int n){
    int i, p;
    p = 1;
    for (i = 1; i <= n; ++i){
        p = p * base;
    }
    return p;
}
```



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EXAMPLE

```

int CheckLeap(int year){
    if (year % 4 == 0 && year % 100 != 0) || year % 400 == 0)
        return 1;
    else
        return 0;
}

```

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```

#include <stdio.h>
int CheckLeap(int m); /* declaration!! */

int main(){
    int i;

    printf("Welcome to leapyear calculator!\n");
    printf("Please enter a year:\n");
    scanf("%d",&i);
    if(CheckLeap(i)){
        printf("%d is a leap year\n");
    }
    else{
        printf("%d is NOT a leap year\n");
    }
    return 0;
}

```

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