

Typedef

Math and Computer Science



Type Definitions

- Creates an alias for any existing data type.
- Syntax: `typedef <existingdatatype> <newdatatype>;`

Examples:

```
typedef float real;  
typedef unsigned long long int ull;
```

Change Types Quickly

- Use float to keep track of distances
- Change the Real to be of type double

```
typedef float Real;
Real fun1( Real &distance, float time );

int main()
{
    Real distance;
    float time;
    Real resultingDistance;

    resultingDistance = fun1( distance, time);
}
```

```
Real fun1( Real &distance, float time )
{
}
```

Shorten Data Type Name

```
typedef unsigned long long int ull;  
ull getStandardDeviation( ull arr[], ull count);  
int main()  
{  
    ull count;  
    ull i;  
    ull size = 10000000000;  
    /* some more code */  
    return 0;  
}
```