

Index

1	Enviroment Settings	
1.1	.vimrc . . . . .	
2	Section 1	
2.1	Hello, world . . . . .	
2.2	Hello, wrold 2 . . . . .	
3	Math	
3.1	Euler’s phi function . . . . .	

1 Enviroment Settings

1.1	.vimrc	
1	syntax on	
	set bs=2	
2	set ts=4 sw=4 ai sta si	
2	map<F9> :!g++ "%" -o "%:r.out" -Wall -Wshadow -O2	
2	-lm -std=c++11 && echo "==== done =====" &&	
2	"/%:r.out"	
2		
2		

## 2 Section 1

### 2.1 Hello, world

```
#include <stdio.h>
int main() {
    printf("%s\n", "Hello, world!");
    return 0;
}
```

### 2.2 Hello, wrold 2

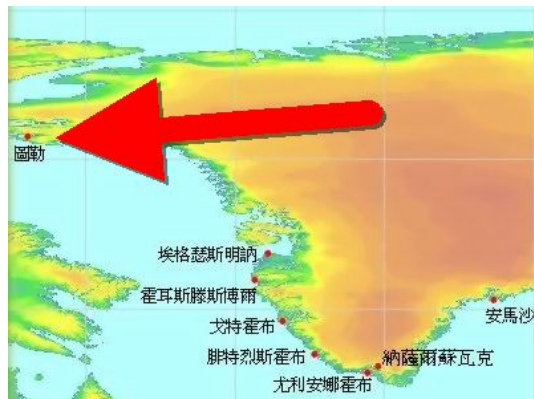
Hello world again.

```
#include <stdio.h>
int main() {
    printf("%s\n", "Hello, world!");
    return 0;
}
中文測試
```

## 3 Math

### 3.1 Euler's phi function

1.  $\gcd(x, y) = d \Rightarrow \phi(xy) = \frac{\phi(x)\phi(y)}{\phi(d)}$
2.  $p \text{ is prime} \Rightarrow \phi(p^k) = p^{k-1}\phi(p)$
3.  $p \text{ is prime} \Rightarrow \phi(p^k) = \phi(p^{k-1}) \times p$
4.  $n = p_1^{k_1} p_2^{k_2} \dots p_m^{k_m} \Rightarrow \phi(n) = p_1^{k_1-1} \phi(p_1) p_2^{k_2-1} \phi(p_2) \dots p_m^{k_m-1} \phi(p_m)$



The End