## C++ Tricks 2.6 I386C(Variable Arguments)

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## 2.6 I386C(Variable Arguments)

```
(2.4)C"..."
    void g(int a,char* c,...);
   g22
   q(3,"Hello",2,4,5);//q53
   2.4:
    void g(int a,char* c...){
    void *pc=&c;int* pi=static cast<int*>
(pc)+1;//pi
   for(int i=0;i<a;i++)std::cout<<pi[i]<<""
   std::cout<<c<<std::endl:
    }
    addAllint0
   int addAll(...):
   int a=f(1,4,2,5,7,0);
    addAll
    int addAll(...){
    int sum=0;int *p=∑ //p
    p+=3; //sumebpeipp
   for(;*p;++p) //p0
```

```
sum+=*p;
    return sum;
    }
    Cprintfscanf
    void printf(char *c,...);
    void scanf(char *c,...);
    (align)C(macro)(struct)stdarg.h:
    typedef struct {char *p;int offset;} va list;
    #define va start(valist,arg)
    #define va arg(valist,type)
    #define va end(valist)
    va listva startva listva liststdarg.h
va argtypeva endaddAll
    int addAll(int i,...)
    {
    va list vl; //va list
    va start(vl,i); //vl
    if(i=0) return 0; //0
```

```
int sum=i; //sum
   for(;;){
    i=va arg(vl,int); //sum
    if(i==0)break; //0
   sum+=i;
    }
    va end(vl);
    return sum;
    }
    (printf)(align)I386
    CC++reinterpret castC
C++C++CC++
    C++(TMP)SFINAEC++
int
    long isIntImp(int);
    char isIntImp(...);
   template<typename T>
   struct isInt
    {
    enum{value=sizeof(isIntImp(T()))==sizeof(long);
```

}

Т

if(isInt<T>::value)//...

()TintisIntImplongvalue1char value0TintintintSFINAESTLBoost

 ${\sf SFINAE} is IntImpisIntImpsize of \\ {\sf C++C++}$