第一题：

class CGoods

{

private:

long no;

char \*p\_name;

double price;

public:

CGoods(long no\_val, char \*p\_val, double price\_val);

CGoods(CGoods &r\_goods);

~CGoods(){delete p\_name;}

void print();

};

CGoods::CGoods(long no\_val, char \*p\_val, double price\_val)

{

no=no\_val;

p\_name=new char(strlen(p\_val));

strcpy(p\_name,p\_val);

price=price\_val;

}

CGoods::CGoods(CGoods &r\_goods)

{

no=r\_goods.no;

p\_name=new char(strlen(r\_goods.p\_name));

strcpy(p\_name,r\_goods.p\_name);

price=r\_goods.price;

}

void CGoods::print()

{

cout<<"Goods number:"<<no<<endl;

cout<<"Goods name:"<<p\_name<<endl;

cout<<"Goods price:"<<price<<endl;

}

第二题：

class CGoods

{

private:

long no;

char \*p\_name;

double price;

int count;

public:

CGoods(long no\_val, char \*p\_val, double price\_val);

CGoods(CGoods &r\_goods);

~CGoods();

void print();

int getCount(){return count;}

friend char \*getName(CGoods &r\_goods);

};

CGoods::CGoods(long no\_val, char \*p\_val, double price\_val)

{ no=no\_val;

p\_name=new char(strlen(p\_val));

strcpy(p\_name,p\_val);

price=price\_val;

count++;

}

CGoods::CGoods(CGoods &r\_goods)

{ no=r\_goods.no;

p\_name=new char(strlen(r\_goods.p\_name));

strcpy(p\_name,r\_goods.p\_name);

price=r\_goods.price;

count++;

}

CGoods::~CGoods()

{

count--;

delete p\_name;

}

void CGoods::print()

{ cout<<"Goods number:"<<no<<endl;

cout<<"Goods name:"<<p\_name<<endl;

cout<<"Goods price:"<<price<<endl;

}

char \*getName(CGoods &r\_goods)

{ return r\_goods.p\_name;}

第三题：

class CGoods

{

private:

long no;

char \*p\_name;

double price;

static int count;

public:

CGoods(long no\_val, char \*p\_val, double price\_val);

CGoods(CGoods &r\_goods);

~CGoods();

void print();

int getCount(){return count;}

friend char \*getName(CGoods &r\_goods);

bool operator < (CGoods &r\_goods);

bool operator >= (CGoods &r\_goods);

};

CGoods::CGoods(long no\_val, char \*p\_val, double price\_val)

{

no=no\_val;

p\_name=new char(strlen(p\_val));

strcpy(p\_name,p\_val);

price=price\_val;

count++;

}

CGoods::CGoods(CGoods &r\_goods)

{

no=r\_goods.no;

p\_name=new char(strlen(r\_goods.p\_name));

strcpy(p\_name,r\_goods.p\_name);

price=r\_goods.price;

count++;

}

CGoods::~CGoods()

{

count--;

delete p\_name;

}

int CGoods::count=0;

void CGoods::print()

{

cout<<"Goods number:"<<no<<endl;

cout<<"Goods name:"<<p\_name<<endl;

cout<<"Goods price:"<<price<<endl;

}

char \*getName(CGoods &r\_goods)

{

return r\_goods.p\_name;

}

bool CGoods::operator < (CGoods &r\_goods)

{

if(price<r\_goods.price)

return true;

else

return false;

}

bool CGoods::operator >= (CGoods &r\_goods)

{

if(price>=r\_goods.price)

return true;

else

return false;

}

第四题：

class CClothes:public CGoods

{

private:

char \*p\_brand;

public:

CClothes(long no\_val,char \*p\_val, double price\_val, char \*p\_brand\_val):CGoods(no\_val,p\_val,price\_val)

{

p\_brand=new char(strlen(p\_brand\_val));

strcpy(p\_brand,p\_brand\_val);

}

~CClothes(){delete p\_brand;}

void usedFor()

{

cout<<"服装"<<endl;

}

};

class CFood:public CGoods

{

private:

char \*p\_brand;

public:

CFood(long no\_val, char \*p\_val, double price\_val, char \*p\_brand\_val):CGoods(no\_val,p\_val,price\_val)

{

p\_brand=new char(strlen(p\_brand\_val));

strcpy(p\_brand,p\_brand\_val);

}

~CFood(){delete p\_brand;}

void usedFor()

{

cout<<"食品"<<endl;

}

};