#include<iostream>

using namespace std;

enum posneg {pos,neg};

class distancee

{

protected:

int feet;

float inches;

public:

distancee():feet(0),inches(0.0)

{ }

distancee(int ft,float in):feet(ft),inches(in)

{ }

void get()

{

cout<<" Enter the feet"<<endl;

cin>>feet;

cout<<" Enter the inches"<<endl;

cin>>inches;

}

void show()

{

cout<<"feet are"<<feet<<endl;

cout<<"inches are"<<inches<<endl;

}

};

class distanceesign:public distancee

{

private:

posneg sign;

public:

distanceesign():distancee()

{

sign=pos;

}

distanceesign(int ft,float in,posneg sg=pos):distancee(ft,in)

{

sign=sg;

}

void get()

{

distancee::get();

char ch;

cout<<"enter sign(+ or -)";

cin>>ch;

sign=(ch=='+')?pos:neg;

}

void show()

{

cout<<( (sign==pos)? "(+)":"(-)" );

distancee::show();

}

};

int main()

{

distanceesign alpha;

alpha.get();

distanceesign beta(11,6.25);

distanceesign gamma(100,5.5,neg);

cout<<"alpha"<<endl;

alpha.show();

cout<<"beta"<<endl;

beta.show();

cout<<"gamma"<<endl;

gamma.show();

getchar();

getchar();

return 0;

}