```
Vertex.hh
 Jan 09, 15 16:20
                                                               Page 1/2
#ifndef Vertex_h
#define Vertex_h 1
#include "globals.hh"
#include <vector>
#include "G4VHit.hh"
#include "G4THitsCollection.hh"
#include "G4Allocator.hh"
#include "G4ThreeVector.hh"
#include "Track.hh"
#include "G4HCofThisEvent.hh"
class Vertex : public G4VHit
public:
 Vertex ();
 Vertex (G4bool aQuaiselastic, G4bool aInelastic,
        G4String aVolumeName, G4ThreeVector aPosition);
 ~Vertex ();
 Vertex (const Vertex&);
 const Vertex& operator= (const Vertex&);
 int operator== (const Vertex&) const;
 inline void* operator new(size_t);
 inline void operator delete(void*);
                     GetVolumeName(){return theVolumeName;}
 inline G4String
 inline G4ThreeVector GetPosition(){return thePosition;}
 inline G4bool
                     IsOuasielastic(){return theOuasielastic;}
                     IsInelastic(){return theInelastic;}
 inline G4bool
 inline void SetIsQuasielastic(G4bool aQuasielastic){theQuasielastic=aQuasiela
stic;
 inline void SetIsInelastic(G4bool aInelastic){theInelastic=aInelastic;}
 inline void SetPosition(G4ThreeVector aPos) {thePosition=aPos;}
 inline void SetVolumeName(G4String aVolName){theVolumeName=aVolName;}
 void Draw () {};
 void Print () {};
void clear () {};
 void DrawAll () {};
 void PrintAll () {};
private:
 G4String
                  theVolumeName;
 G4ThreeVector
                  thePosition;
 G4bool
                  theInelastic;
 G4bool
                  theQuasielastic;
};
typedef G4THitsCollection<Vertex> VertexsCollection;
extern G4Allocator<Vertex> VertexAllocator;
inline void* Vertex::operator new(size_t)
 void *aHit;
 aHit = (void *) VertexAllocator.MallocSingle();
 return aHit;
```