```
Game Class will keep
                  Track of # of players;
                                                          steveo
                                                                            Equipment
                    a simulation of a game
 class Game
                                                                                                                                   Power Blast
                                                         rack
   prwate:
                                                            Spoil or
   vector 2 playor > playor list;
                                                                                                                  Mark
                                                                                 DISTRONSON
                    playor stores
                                                                (abstract
 class Player
                      Stats of player.
                                                                     Engine
                                                           Class
                      Each player has
  private:
     int expendence;
                        a vehicle. We have
      int strength;
                                                              public:
                        a list of equipment
                                                                                        (Specifications) ) is virtual so that each
      int control ;
                         So that eve can add to
                                                          virtual specifications()= 0;
                                                                                         child class can override it with their
                          It as now Hems get
    Car vehicles
                            acamired)
                                                                                           own spectfications)
                                                             Private:
    11st Leavies equipment
                                                                              Class Warp: Public Engine
                                                                                                           class power Blast: public Engine
                                                 class NHTOX: public Engine
             (abstract)
             class Car
                                                                               public:
                                                                                                              public:
                                                  public:
                                                                                 specifications);
           Public:
                                                                                                                specifications);
                                                    specifications();
                 capabilities()=0;
         LOWFILV
           Private:
               sta:: string oplor;
                                    (capabilitiesi) are pure virtual bic
                                       their subclasses can override them with
               Engine engine;
                                          trear own functions according to car type)
                                                                        Class Buggy: Public Car
                                        Class Pacer: Public Car
     class Truck: public Car
                                       Public:
                                                                            Public:
      Public:
                                          capabilities();
                                                                              capabilities ();
        Capabilities ();
                                (with eaulpment class we
                                  can add more weapons or yehicle add-ons)
       (abstract)
   class Eaulpment
                                                                                                       cross grenade launchor: public Equipment
                                                                      elass machinelian: public Equipment
                                        ciaus fungan: public Equipment
                                                                                                           Private:
                                                                         Private:
    Private:
                                            Private:
                                                                                                          public:
    public:
                                                                         public:
                                                                                                            bool weapon Or Not ();
action()
                                            public:
10thal bool weapon Or Not () = 0;
                                                                          bool weapon Or Not ();
                                             bool weapon Or Not ();
   virtual action() = 0; (action() will be one
                                                                               actioni
                                                                                                          class oil Dupenser: public tealpment
                                                   action();
                                                                                                                         Private:
   rirtual carvaluci=0)
                                                                                                                         public:
                                                                                                                          bool weapon Or Not ();
                                                                                              ciess vase: public famipment
                                                           crass sporter: public Equipment
                                                                                                                              action (),
ciess Reneo: problic Equipment ciess Rack: problic Equipment
                                                                                                Private:
                                                                Private:
                                  Private:
   Private:
                                                                                                public:
                                                                enplic:
                                  public:
                                                                                                 bool weapon Or Not ();
   enplic:
                                                                 bool weapon Or Not ();
                                   bool weapon Or Not ();
    bool weapon Or Not ();
                                                                                                   caryalvel);
                                     carvaluel);
                                                                    carraiveL);
      carvalve ();
```