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```
#include <iostream>
#include <string>
#include <vector>
#include "dice.hpp"
#include "helpers.hpp"
using namespace std;
#pragma once
class Weapon {
 protected:
   string name; // name of weapon
   string damage; // damage per roll or "use"
   Dice* die;
public:
    /**
     * @brief Construct a new Base Weapon object
     * Also invokes the Dice class constructor with the "die" type
   Weapon() {
        name = "Fists&Feet";
        damage = "1.d.4";
       die = new Dice(damage);
    }
   /**
     * @brief Overloaded Constructor for a new Base Weapon object
     * Also invokes the Dice class constructor with the "die" type
     * @param choices-vector of string "die" choices like
{"2.d.8","2.d.10","3.d.4"}
    Weapon(vector< string > choices) {
        name = "Fists&Feet";
        damage = randomChoice(choices);
        die = new Dice(damage);
    }
    virtual int use() {
       return die->roll();
   // friend ostream& operator<<(ostream& os, const Weapon& w) {</pre>
   // return os << "[" << w.name << " , " << w.damage << "]";
   // }
};
/*
*@brief: weapon "sword"
*@method: Sword() creates weapon type sword
*/
struct Sword : public Weapon{
```

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```
Sword(){
   name = "Sword";
   vector<string> roll = {"1.d.12", "2.d.6", "3.d.4"};
   damage = randomChoice(roll);
   die = new Dice(damage);
 }
};
/*
*@brief: weapon "Bow"
*@method: Bow() creates weapon type Bow
struct Bow : public Weapon{
 Bow(){
   name = "Bow";
   vector<string> roll = {"1.d.8", "2.d.4", "1.d.10"};
   damage = randomChoice(roll);
   die = new Dice(damage);
 }
};
/*
*@brief: weapon "Spell"
*@method: Spell() creates weapon type Spell
*/
struct Spell : public Weapon{
 Spell(){
   name = "Magic Spell";
   vector<string> roll = {"1.d.20", "2.d.10", "3.d.6", "5.d.4"};
   damage = randomChoice(roll);
   die = new Dice(damage);
 }
};
*@brief: weapon "M_Weapon"
*@method: M_Weapon() creates weapon type magic sword
struct M_Weapon : public Weapon{
 M_Weapon(){
   name = "Magic Weapon";
   vector<string> roll1 = {"1.d.12", "2.d.6", "3.d.4"};
   vector<string> roll2 = {"1.d.4", "1.d.6"};
   damage = randomChoice(roll1) + randomChoice(roll2);
   die = new Dice(damage);
 }
};
*@brief: weapon "F_Weapon" fire weapon
*@method: F_Weapon() creates weapon type fire weapon
struct F_Weapon : public Weapon{
 F_Weapon(){
   name = "Magic Spell and Fire";
   vector<string> roll1 = {"1.d.20", "2.d.10", "3.d.6", "5.d.4"};
   vector<string> roll2 = {"1.d.6", "1.d.8"};
   damage = randomChoice(roll1) + randomChoice(roll2);
```

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```
die = new Dice(damage);
}
};
```