```
package com.sxt.composite;

import java.util.ArrayList;
import java.util.List;

//抽象构建
public interface AbstractFile {
    void killVirus();  //杀毒
}


class ImageFile implements AbstractFile{
        private String name;

        public ImageFile(String name) {
                super();
                this.name=name;
        }

        @Override
        public void killVirus() {
        System.err.println("--图片文件:"+name+",进行查杀!");
        };
}


class TextFile implements AbstractFile{
        private String name;

        public TextFile(String name) {
                super();
                this.name=name;
        }

        @Override
```

```
        public void killVirus() {
        System.err.println("--文本文件:"+name+",进行查杀!");
        };
}


class VedioFile implements AbstractFile{
        private String name;

        public VedioFile(String name) {
                super();
                this.name=name;
        }

        @Override
        public void killVirus() {
        System.err.println("--图像文件:"+name+",进行查杀!");
        };
}


class Folder implements AbstractFile{
   private String name;
   //定义容器，用来存放本容器构建下的子节点
   private List<AbstractFile> list;

   public Folder(String name) {
      this.name=name;
         list=new ArrayList<>();
   }

   public void add(AbstractFile file) {
          list.add(file);
   }
```

```
    public void remove(AbstractFile file) {
            list.remove(file);
    }

    public AbstractFile getChild(int index) {
            return list.get(index);
    }


    //天然递归
         @Override
         public void killVirus() {
                 System.err.println("----文件夹:"+name+",进行查杀!");
                 for(AbstractFile file:list) {
                         file.killVirus();
                 }

         }

}
```