

代码设计

1. 实用类设计

- 获取系统时间

```
1  class Date
2      {
3      public:
4          static size_t now()
5          {
6              return (size_t)time(nullptr);
7          }
8      };
```

- 判断文件是否存在
- 创建文件的所在目录路径
- 创建目录

```

1 class File
2     {
3     public:
4         static bool exists(const std::string &pathname)
5         {
6             struct stat st;
7             return stat(pathname.c_str(), &st) == 0;
8         }
9         static std::string path(const std::string &pathname)
10        {
11            size_t pos = pathname.find_last_of("/\\");
12            if (pos == std::string::npos)
13                return ".";
14            return pathname.substr(0, pos - 1);
15        }
16        static void createDirectory(const std::string &pathname)
17        {
18            size_t pos = 0;
19            size_t idx = 0;
20            while (idx < pathname.size())
21            {
22                pos = pathname.find_first_of("/\\", idx);
23                if (pos == std::string::npos)
24                {
25                    mkdir(pathname.c_str(), 0777);
26                    return ;
27                }
28                std::string parent_dir = pathname.substr(0, pos + 1);
29                if (exists(parent_dir))
30                {
31                    idx = pos + 1;
32                    continue;
33                }
34                mkdir(parent_dir.c_str(), 0777);
35                idx = pos + 1;
36            }
37        }

```

