

### Online

```
-itemSizes: const std::vector<double> &  
-numItems: int  
+Online(itemSizes_:std::vector<double> &,  
        numItems_:int)  
+nextFit(): std::vector<std::vector<double>>  
+firstFit(): std::vector<std::vector<double>>  
+bestFit(): std::vector<std::vector<double>>
```

### Offline

```
-itemSizes: const std::vector<double> &  
-numItems: int  
-descendingOrder(a:double,b:double): static bool  
+Offline(itemSizes_:const std::vector<double> &,  
        numItems_:int)  
+firstFit(): std::vector<std::vector<double>>  
+bestFit(): std::vector<std::vector<double>>
```

### BruteForce

```
+BruteForce()  
+bruteForceBinPacking(itemSizes:const std::vector<double>&,  
                     binCapacity:double): std::vector<std::vector<double>>
```