Supermarket

Submission deadline:	**2022-04-24 23:59:59**
Late submission with malus:	**2022-05-15 23:59:59** (Late submission malus: 100.0000 %)
Evaluation:	**5.0000**
Max. assessment:	**5.0000** (Without bonus points)
Submissions:	20 / 20 Free retries + 20 Penalized retries (-2 % penalty each retry)
Advices:	4 / 2 Advices for free + 2 Advices with a penalty (-10 % penalty each advice)

The task is to develop classes to implement basic store/sell operations in a supermarket.

Assume a store in a supermarket. A lot of various articles are in the store, each article is unambiguously identified by its name (a string of a reasonable length, mostly up to 30 characters). Moreover, we keep the information on expiry date and the number of items we have in the store.

Class (`CSupermarket`) must provide the following operations:

default constructor
      initializes an empty instance of the store,
store (name, expireDate, cnt)
      the method stores an article into the store. The article is identified by its name (`name`), expiry date (`expireDate`) and the number of items stored (`cnt`). Do not assume anything about the expiry dates. The article being stored may have expiry date earlier than an article that has already been stored (even if the names are the same).
sell (list)
      the method sells some articles. The parameter is a shopping list of type `list<pair<string,int>>`. The list consists of records, each record identifies some article and the requested quantity. The method gets somewhat complicated. Our customers do not have neat handwriting, thus there is sometimes problem with the OCR software that scans the shopping lists. Some names in the shopping lists may contain typos. Our implementation must be prepared, thus the following ideas are used to identify the articles:

- first, we search the article with an exact match (case sensitive search),
- if there is not an exact match, we search for an article where the name differs in exactly one character (one character in the name is misspelled), again the search is case sensitive. If this unambiguously identifies an article, we use this article instead,
- otherwise the search fails - no article of that name was found (this happens if no article name differs in exactly one character, or there are two or more articles where the names differ in one character).

If the article is found, the method expends the articles starting from the oldest (i.e., first sell the articles with the closest expiry date). If there are enough items to expend, the method expends the items and removes the corresponding record from the shopping list. If there is not enough items in the store, the methods expends the available items and decreases the count in the shopping list accordingly.

The method is a kind of a "transaction": it first searches the store for the requested articles (is it present, exact match, match with one different character). Subsequently, the method expends the items and updates the store and the shopping list. This is demonstrated in the sample run with the list `l10`. Name "Cake" is ambiguous, yet it becomes unique subsequently when `cake` is sold out. Listing `l14` demonstrates the order of processing: the articles are expended in the order of the records in the shopping list.

expired (date)
      the method lists the articles that expire before the date in parameter. The result is a list of articles (and the number of expiring items in the store) where the expiry date is strictly less than the date in the parameter. The resulting list is ordered according to the number of expiring items in a decreasing order. If there are two or more articles with the same number of expiring items, then there is not specified any relative ordering of the articles in such a group; any order will be accepted.

Submit a source of the classes `CSupermarket` and `CDate`. Use the attached file as a basis of your implementation. Moreover, the attached file contains some basic tests. You are free to add further classes to simplify your implementation.

Notes:

- The mandatory tests do not store many articles, thus linear solution may be able to pass the mandatory tests. Subsequent tests store much more data sets, thus linear solution is likely to timeout. There is a significant malus if the solution does not pass the optional test. To speed it up, use associative STL containers.
- Associative containers are quite straightforward when searching for an exact match. The optional test uses mostly exact names, thus a solution combining associative searching (exact matches) and linear searching (matching with typos) passes the test. The bonus test stores many articles, moreover, it searches using both exact and misspelled names. A creative combination of algorithms and STL containers is needed to actually pass the test.
- Methods `store` and `sell` are called frequently, thus they must be efficient. Method `expired` is significantly less frequent, thus its efficiency is not that critical. **CAUTION:** if the method is extremely inefficient, it may still timeout the speed tests. The list returned by the method may be rather long. Quadratic algorithms are too inefficient to handle lists that long.
- You are expected to use/can use/must use STL containers to implement the class. Do not rely on `vector`, instead, consider other containers too. Be cautious when using `unordered_set` / `unordered_map`. Do not implement hash function as a specialization of `std::hash`. Use your own function/functor instead and use the type explicitly in declarations. The specialization of `std::hash` assumes that namespace `std` is re-opened. This is difficult to accomplish when your code is already enclosed in a namespace. The solutions on the Internet (e.g., stack overflow, cpp reference) implicitly assume you do not use namespaces. Thus the solutions are not portable, in particular, they are not compatible with this homework.
- The bonus test measures the speed of your implementation, however, it does not care much about the memory efficiency. There is enough available memory (about 10 times the amount of memory needed to store the input data) for your additional data structures. You need to trade speed for memory to pass the bonus test.
- A solution that passes all mandatory and optional tests with 100% results may be used for code review (the solution does not need to pass the bonus test).

Sample data: **Download**

✅ **Reference**

- **Evaluator: computer**
  - Program compiled
  - Test 'Zakladni test s parametry podle ukazky': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 0.000 s (limit: 5.000 s)

- Mandatory test success, evaluation: 100.00 %
  - Test 'Test nahodnymi daty (presna jmena)': success
    - result: 100.00 %, required: 50.00 %
    - Total run time: 0.364 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Test nahodnymi daty (nepresna jmena)': success
    - result: 100.00 %, required: 50.00 %
    - Total run time: 0.136 s (limit: 4.636 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Test nahodnymi daty + mem debugger': success
    - result: 100.00 %, required: 50.00 %
    - Total run time: 0.742 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Test rychlosti (presna jmena)': success
    - result: 100.00 %, required: 25.00 %
    - Total run time: 6.392 s (limit: 12.000 s)
    - Optional test success, evaluation: 100.00 %
  - Test 'Test rychlosti (nepresna jmena)': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 6.989 s (limit: 12.000 s)
    - Bonus test - success, evaluation: 125.00 %
  - Overall ratio: 125.00 % (= 1.00 * 1.00 * 1.00 * 1.00 * 1.00 * 1.25)
- Retries penalty: 32.00 % (= (36 - 20) * 2 %)
- Total percent: 85.00 % (= 1.25 * 0.68)
- Early submission bonus: 0.50
- Total points: 0.85 * (5.00 + 0.50) = 4.67

		Total	Average	Maximum	Function name
SW metrics:	Functions:	**20**	--	--	--
	Lines of code:	**218**	**10.90 ± 7.88**	**30**	CSupermarket::findRealName
	Cyclomatic complexity:	**59**	**2.95 ± 2.67**	**12**	CSupermarket::findRealName

20	2022-04-16 15:55:45	Download

Submission status:	Evaluated
Evaluation:	5.0000

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 0.001 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (exact names)': success
    - result: 100.00 %, required: 50.00 %
    - Total run time: 0.943 s (limit: 4.999 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (names with mismatch)': success
    - result: 100.00 %, required: 50.00 %
    - Total run time: 0.280 s (limit: 4.056 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test + mem debugger': success
    - result: 100.00 %, required: 50.00 %
    - Total run time: 0.735 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Speed test (exact names)': success
    - result: 100.00 %, required: 25.00 %
    - Total run time: 8.752 s (limit: 12.000 s)
    - Optional test success, evaluation: 100.00 %
  - Test 'Speed test (names with mismatch)': Abnormal program termination (Time limit exceeded)
    - Cumulative test time exceeded, killed after:: 12.016 s (limit: 12.000 s)
    - Bonus test - failed, evaluation: No bonus awarded
  - Overall ratio: 100.00 % (= 1.00 * 1.00 * 1.00 * 1.00 * 1.00)
- Advices used: 2
- Penalty due to advices: None (2 <= 2 limit)
- Total percent: 100.00 %
- Total points: 1.00 * 5.00 = 5.00

		Total	Average	Maximum	Function name
SW metrics:	Functions:	**6**	--	--	--
	Lines of code:	**224**	**37.33 ± 38.84**	**108**	main
	Cyclomatic complexity:	**32**	**5.33 ± 7.23**	**21**	CSupermarket::sell

19	2022-04-16 01:41:58	Download

Submission status:	Evaluated
Evaluation:	0.0000

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': Abnormal program termination (Segmentation fault/Bus error/Memory limit exceeded/Stack limit exceeded)
    - Total run time: 0.008 s (limit: 5.000 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 %
- Advices used: 2

- Penalty due to advices: None (2 <= 2 limit)
- Total percent: 0.00 %
- Total points: 0.00 * 5.00 = 0.00

SW metrics:

	Total	Average	Maximum	Function name
Functions:	**6**	--	--	--
Lines of code:	**222**	**37.00 ± 38.57**	**108**	main
Cyclomatic complexity:	**32**	**5.33 ± 7.23**	**21**	CSupermarket::sell

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18   **2022-04-16 01:09:49**   **Download**

Submission status:	Evaluated
Evaluation:	4.9723

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 0.001 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (exact names)': success
    - result: 99.68 %, required: 50.00 %
    - Total run time: 0.972 s (limit: 4.999 s)
    - Mandatory test success, evaluation: 99.68 %
    - ☑ Failed (invalid output)

      ```
      expires() – list contents mismatch r={"NhO1X1 oLgD3YoyP0o ", 608425}, s={"uoFiAjQk7SydFmn6 S4", 63913}
      ```

  - Test 'Random test (names with mismatch)': success
    - result: 100.00 %, required: 50.00 %
    - Total run time: 0.258 s (limit: 4.027 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test + mem debugger': success
    - result: 99.76 %, required: 50.00 %
    - Total run time: 0.730 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 99.76 %
    - ☑ Failed (invalid output)

      ```
      expires() – list contents mismatch r={"W6Bj EB7 5w8On6NoIY", 71739}, s={"dNsJfBojKTMM89TdFIK", 62343}
      ```

  - Test 'Speed test (exact names)': success
    - result: 100.00 %, required: 25.00 %
    - Total run time: 8.281 s (limit: 12.000 s)
    - Optional test success, evaluation: 100.00 %
  - Test 'Speed test (names with mismatch)': Abnormal program termination (Time limit exceeded)
    - Cumulative test time exceeded, killed after:: 12.016 s (limit: 12.000 s)
    - Bonus test - failed, evaluation: No bonus awarded
  - Overall ratio: 99.44 % (= 1.00 * 1.00 * 1.00 * 1.00 * 1.00)
- Advices used: 2
- Penalty due to advices: None (2 <= 2 limit)
- Total percent: 99.44 %
- Total points: 0.99 * 5.00 = 4.97

SW metrics:

	Total	Average	Maximum	Function name
Functions:	**6**	--	--	--
Lines of code:	**224**	**37.33 ± 38.84**	**108**	main
Cyclomatic complexity:	**32**	**5.33 ± 7.23**	**21**	CSupermarket::sell

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17   **2022-04-16 00:46:11**   **Download**

Submission status:	Evaluated
Evaluation:	4.9831

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 0.001 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (exact names)': success
    - result: 99.68 %, required: 50.00 %
    - Total run time: 0.940 s (limit: 4.999 s)
    - Mandatory test success, evaluation: 99.68 %
    - ☑ Failed (invalid output)

      ```
      expires() – list contents mismatch r={"Vc0kcZqXnmwg GTtBce", 277117}, s={"o2yQeRp HUc8Ju2MmaV", 65245}
      ```

  - Test 'Random test (names with mismatch)': success
    - result: 100.00 %, required: 50.00 %
    - Total run time: 0.261 s (limit: 4.059 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test + mem debugger': success
    - result: 100.00 %, required: 50.00 %
    - Total run time: 0.603 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Speed test (exact names)': success

- result: 99.98 %, required: 25.00 %
- Total run time: 8.822 s (limit: 12.000 s)
- Optional test success, evaluation: 99.98 %
- ☑ Failed (invalid output)

```
expires() – list contents mismatch r={"j9Rv3ez ZCakikuyhoz", 66236}, s={"p 9kNs2A4BTbfzCwoyG", 62529}
```

- Test 'Speed test (names with mismatch)': Abnormal program termination (Time limit exceeded)
  - Cumulative test time exceeded, killed after:: 12.014 s (limit: 12.000 s)
  - Bonus test - failed, evaluation: No bonus awarded
- Overall ratio: 99.66 % (= 1.00 * 1.00 * 1.00 * 1.00 * 1.00)
- Total percent: 99.66 %
- Total points: 1.00 * 5.00 = 4.98

SW metrics:		Total	Average	Maximum	Function name
	Functions:	6	--	--	--
	Lines of code:	224	37.33 ± 38.84	108	main
	Cyclomatic complexity:	32	5.33 ± 7.23	21	CSupermarket::sell

16	2022-04-15 14:09:01	**Download**
Submission status:	Evaluated	
Evaluation:	0.0000	

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 0.001 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (exact names)': Abnormal program termination (Segmentation fault/Bus error/Memory limit exceeded/Stack limit exceeded)
    - Total run time: 0.010 s (limit: 4.999 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 % (= 1.00 * 0.00)
- Total percent: 0.00 %
- Total points: 0.00 * 5.00 = 0.00

SW metrics:		Total	Average	Maximum	Function name
	Functions:	6	--	--	--
	Lines of code:	223	37.17 ± 38.94	108	main
	Cyclomatic complexity:	33	5.50 ± 7.16	21	CSupermarket::sell

15	2022-04-14 19:05:45	**Download**
Submission status:	Evaluated	
Evaluation:	0.0000	

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 0.001 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (exact names)': Abnormal program termination (Time limit exceeded)
    - Cumulative test time exceeded, killed after:: 5.003 s (limit: 4.999 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 % (= 1.00 * 0.00)
- Total percent: 0.00 %
- Total points: 0.00 * 5.00 = 0.00

SW metrics:		Total	Average	Maximum	Function name
	Functions:	6	--	--	--
	Lines of code:	244	40.67 ± 37.58	108	main
	Cyclomatic complexity:	40	6.67 ± 7.23	21	CSupermarket::sell

14	2022-04-14 10:05:17	**Download**
Submission status:	Evaluated	
Evaluation:	0.0000	

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': Abnormal program termination (Segmentation fault/Bus error/Memory limit exceeded/Stack limit exceeded)
    - Total run time: 0.009 s (limit: 5.000 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 %
- Total percent: 0.00 %
- Total points: 0.00 * 5.00 = 0.00

SW metrics:		Total	Average	Maximum	Function name
	Functions:	6	--	--	

| | Lines of code: | 259 | 43.17 ± 39.87 | 108 | main |
| | Cyclomatic complexity: | 47 | 7.83 ± 9.62 | 28 | CSupermarket::sell |

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13   **2022-04-11 14:00:08**

| **Submission status:** | Evaluated |
| **Evaluation:** | 0.0000 |

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 0.001 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (exact names)': Abnormal program termination (Time limit exceeded)
    - Cumulative test time exceeded, killed after:: 5.006 s (limit: 4.999 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 % (= 1.00 * 0.00)
- Total percent: 0.00 %
- Total points: 0.00 * 5.00 = 0.00

		Total	Average	Maximum	Function name
SW metrics:	Functions:	6	--	--	--
	Lines of code:	262	43.67 ± 40.41	108	main
	Cyclomatic complexity:	47	7.83 ± 9.62	28	CSupermarket::sell

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12   **2022-04-10 21:41:03**

| **Submission status:** | Evaluated |
| **Evaluation:** | 0.0000 |

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 0.001 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (exact names)': Abnormal program termination (Time limit exceeded)
    - Cumulative test time exceeded, killed after:: 5.004 s (limit: 4.999 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 % (= 1.00 * 0.00)
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

		Total	Average	Maximum	Function name
SW metrics:	Functions:	6	--	--	--
	Lines of code:	267	44.50 ± 41.36	108	main
	Cyclomatic complexity:	47	7.83 ± 9.62	28	CSupermarket::sell

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11   **2022-04-10 21:24:49**

| **Submission status:** | Evaluated |
| **Evaluation:** | 0.0000 |

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': success
    - result: 100.00 %, required: 100.00 %
    - Total run time: 0.001 s (limit: 5.000 s)
    - Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (exact names)': Abnormal program termination (Time limit exceeded)
    - Cumulative test time exceeded, killed after:: 5.004 s (limit: 4.999 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 % (= 1.00 * 0.00)
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

		Total	Average	Maximum	Function name
SW metrics:	Functions:	6	--	--	--
	Lines of code:	267	44.50 ± 41.36	108	main
	Cyclomatic complexity:	47	7.83 ± 9.62	28	CSupermarket::sell

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10   **2022-04-10 18:44:31**

| **Submission status:** | Evaluated |
| **Evaluation:** | 0.0000 |

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': success

- result: 100.00 %, required: 100.00 %
- Total run time: 0.001 s (limit: 5.000 s)
- Mandatory test success, evaluation: 100.00 %
  - Test 'Random test (exact names)': Abnormal program termination (Time limit exceeded)
    - Cumulative test time exceeded, killed after:: 5.006 s (limit: 4.999 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 % (= 1.00 * 0.00)
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

SW metrics:		Total	Average	Maximum	Function name
	Functions:	7	--	--	--
	Lines of code:	291	41.57 ± 45.36	114	CSupermarket::sell
	Cyclomatic complexity:	52	7.43 ± 10.54	32	CSupermarket::sell

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9	2022-04-10 17:08:05	Download

Submission status:	Evaluated
Evaluation:	0.0000

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': Abnormal program termination (Segmentation fault/Bus error/Memory limit exceeded/Stack limit exceeded)
    - Total run time: 0.006 s (limit: 5.000 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 %
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

SW metrics:		Total	Average	Maximum	Function name
	Functions:	6	--	--	--
	Lines of code:	284	47.33 ± 45.00	110	CSupermarket::sell
	Cyclomatic complexity:	49	8.17 ± 10.32	30	CSupermarket::sell

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8	2022-04-10 17:05:40	Download

Submission status:	Evaluated
Evaluation:	0.0000

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': Abnormal program termination (Segmentation fault/Bus error/Memory limit exceeded/Stack limit exceeded)
    - Total run time: 0.006 s (limit: 5.000 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 %
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

SW metrics:		Total	Average	Maximum	Function name
	Functions:	7	--	--	--
	Lines of code:	287	41.00 ± 44.46	110	CSupermarket::sell
	Cyclomatic complexity:	50	7.14 ± 9.88	30	CSupermarket::sell

7	2022-04-10 17:04:22	Download

Submission status:	Evaluated
Evaluation:	0.0000

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': Abnormal program termination (Segmentation fault/Bus error/Memory limit exceeded/Stack limit exceeded)
    - Total run time: 0.006 s (limit: 5.000 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 %
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

SW metrics:		Total	Average	Maximum	Function name
	Functions:	7	--	--	--
	Lines of code:	287	41.00 ± 44.46	110	CSupermarket::sell
	Cyclomatic complexity:	50	7.14 ± 9.88	30	CSupermarket::sell

6	2022-04-10 17:01:01	Download

Submission status: Evaluated
Evaluation: 0.0000

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': Abnormal program termination (Segmentation fault/Bus error/Memory limit exceeded/Stack limit exceeded)
    - Total run time: 0.006 s (limit: 5.000 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 %
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

SW metrics:

	Total	Average	Maximum	Function name
Functions:	8	--	--	--
Lines of code:	289	36.13 ± 43.23	109	CSupermarket::sell
Cyclomatic complexity:	51	6.38 ± 9.46	30	CSupermarket::sell

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5   2022-04-09 14:09:18   **Download**

Submission status: Evaluated
Evaluation: 0.0000

- **Evaluator: computer**
  - Program compiled
  - Test 'Basic test with sample input data': Abnormal program termination (Segmentation fault/Bus error/Memory limit exceeded/Stack limit exceeded)
    - Total run time: 0.007 s (limit: 5.000 s)
    - Mandatory test failed, evaluation: 0.00 %
  - Overall ratio: 0.00 %
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

SW metrics:

	Total	Average	Maximum	Function name
Functions:	8	--	--	--
Lines of code:	131	16.38 ± 13.49	35	CSupermarket::expired
Cyclomatic complexity:	30	3.75 ± 3.70	10	CSupermarket::expired

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4   2022-04-09 14:03:17   **Download**

Submission status: Evaluated
Evaluation: 0.0000

- **Evaluator: computer**
  - Compile in 'basic' mode failed.
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

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3   2022-04-09 13:48:51   **Download**

Submission status: Evaluated
Evaluation: 0.0000

- **Evaluator: computer**
  - Compile in 'basic' mode failed.
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

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2   2022-04-09 13:42:04   **Download**

Submission status: Evaluated
Evaluation: 0.0000

- **Evaluator: computer**
  - Compile in 'basic' mode failed.
- Total percent: 0.00 %
- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00

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1   2022-04-09 13:23:15   **Download**

Submission status: Evaluated
Evaluation: 0.0000

- **Evaluator: computer**
  - Compile in 'basic' mode failed.
- Total percent: 0.00 %

- Early submission bonus: 0.50
- Total points: 0.00 * (5.00 + 0.50) = 0.00