

Testar o Gemini Advanced



fix the code smell "The method toString() has a NCSS line count of 21." using "Extract method" refactoring technique



Java

```
public String toString() {
    StringBuilder str = new StringBuilder();
    for (ToDo toDo : toDos) {
        str.append(toDo.toString());
        str.append("\n");
        str.append(getTrackInfo(toDo));
    String response = str.toString();
    if(response.isEmpty()) {
       return "No ToDos found";
   return response;
3
private String getTrackInfo(ToDo toDo) {
    StringBuilder str = new StringBuilder();
    Integer id = toDo.getId();
    List<LocalDateTime> todosDate = this.tracker.get(id);
    if(todosDate == null){
        str.append("No tracks found\n");
    }else{
        for (LocalDateTime ldt : todosDate) {
            String pattern = "yyyy-MM-dd HH:mm:ss";
            DateTimeFormatter formatter = DateTimeFormatter.ofPattern(pattern);
            String formattedDate = formatter.format(ldt);
            str.append(formattedDate);
            str.append("\n");
   return str.toString();
3
```

Explanation:

Extract Method: We extracted the code that handles the tracking information (retrieving dates from tracker, formatting them, and appending them to the StringBuilder) into a separate private method called getTrackInfo(ToDo toDo).

Improved Readability: This refactoring significantly improves the readability of the toString() method.

The main logic of the toString() method now focuses on iterating through the toDos list and appending

their information to the StringBuilder . The details of how to retrieve and format tracking information are

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Reduced Cyclomatic Complexity: By extracting the tracking information logic, we reduce the number of nested blocks within the toString() method, thereby lowering its cyclomatic complexity and making it easier to understand and maintain.

This refactored code addresses the "NCSS line count of 21" issue by breaking down the toString() method into smaller, more manageable units. This approach enhances code maintainability, testability, and overall code quality.

it does not solve. i get this smell: "The method getTrackInfo(ToDo) has a NCSS line count of 14." resolve using "Extract method" refactoring technique



Python

```
class Tracker:
    def __init__(self):
       self.data = {}
    def track(self, todo_id, date_time):
        if todo_id not in self.data:
            self.data[todo_id] = []
        self.data[todo_id].append(date_time)
    def get_track_info(self, todo_id):
        dates = self.data.get(todo_id)
        if dates is None:
           return "No tracks found\n"
        return format_track_dates(dates)
def format_track_dates(dates):
   return "\n".join([format_date_time(date) for date in dates]) + "\n"
def format_date_time(date_time):
    return date_time.strftime("%Y-%m-%d %H:%M:%S")
```

Explanation:

Extract Method: We extracted the code that formats the dates into a separate function called format_track_dates(dates).

Improved Readability: This refactoring improves the readability of the <code>get_track_info()</code> method by separating the core logic (checking for dates and returning "No tracks found") from the date formatting details.

Reduced Cyclomatic Complexity: By extracting the date formatting logic, we reduce the number of lines Gemini Advanced

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This refactored code addresses the "NCSS line count of 14" issue in <code>getTrackInfo()</code> by breaking down the method into smaller, more manageable units, enhancing code maintainability and readability.

its not in python, is the java code that you provide me before.

this one:

. . . .



Java

```
public String toString() {
    StringBuilder str = new StringBuilder();
    for (ToDo toDo : toDos) {
        str.append(toDo.toString());
        str.append("\n");
        str.append(getTrackInfo(toDo));
    String response = str.toString();
    if(response.isEmpty()){
        return "No ToDos found";
   return response;
3
private String getTrackInfo(ToDo toDo) {
    Integer id = toDo.getId();
    List<LocalDateTime> todosDate = this.tracker.get(id);
    if(todosDate == null){
        return "No tracks found\n";
   return formatTrackDates(todosDate);
3
private String formatTrackDates(List<LocalDateTime> todosDate) {
    StringBuilder str = new StringBuilder();
    for (LocalDateTime ldt : todosDate) {
        String pattern = "yyyy-MM-dd HH:mm:ss";
        DateTimeFormatter formatter = DateTimeFormatter.ofPattern(pattern);
        String formattedDate = formatter.format(ldt);
        str.append(formattedDate);
        str.append("\n");
   return str.toString();
3
```

Explanation:



Extract Method: We extracted the code that iterates through the todosDate list, formats each Geribite Time, and appends it to the StringBuilder into a separate private Annahod called 1.5 Flash TrackDates (List<LocalDateTime> todosDate).

Improved Readability: This refactoring improves the readability of the <code>getTrackInfo()</code> method by separating the core logic (checking for the existence of <code>todosDate</code> and returning "No tracks found" if it's null) from the date formatting and appending logic.

Reduced Cyclomatic Complexity: By extracting the date formatting and appending logic, we reduce the number of lines and potential complexity within the <code>getTrackInfo()</code> method.

This refactored code addresses the "NCSS line count of 14" issue in <code>getTrackInfo()</code> by breaking down the method into smaller, more manageable units, enhancing code maintainability and readability.



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