Zeotap Software Engineer Intern Assignment - ByteSize.java

ByteSize.java

```
package com.zeotap.data.io.common.types;
import java.util.Locale;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
public class ByteSize {
                                                                   BYTE SIZE PATTERN
                    private
                                static
                                            final
                                                      Pattern
Pattern.compile("(\d+(?:\.\d+)?)([KMGTPE]?B)", Pattern.CASE_INSENSITIVE);
   private final long bytes;
   public ByteSize(long bytes) {
        this.bytes = bytes;
    public long getBytes() {
       return bytes;
    public static ByteSize parse(String input) {
                                                            Matcher
                                                                          matcher
BYTE_SIZE_PATTERN.matcher(input.trim().toUpperCase(Locale.ROOT));
        if (!matcher.matches()) {
            throw new IllegalArgumentException("Invalid byte size format: " + input);
        }
        double value = Double.parseDouble(matcher.group(1));
        String unit = matcher.group(2);
        long multiplier;
        switch (unit) {
            case "B":
                multiplier = 1L;
                break;
            case "KB":
                multiplier = 1024L;
                break;
            case "MB":
                multiplier = 1024L * 1024;
                break;
            case "GB":
                multiplier = 1024L * 1024 * 1024;
                break;
            case "TB":
```

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```
multiplier = 1024L * 1024 * 1024 * 1024;
                break;
            case "PB":
               multiplier = 1024L * 1024 * 1024 * 1024 * 1024;
               break;
            case "EB":
               multiplier = 1024L * 1024 * 1024 * 1024 * 1024 * 1024;
                break;
            default:
                   throw new IllegalArgumentException("Unsupported byte size unit: " +
unit);
        }
       return new ByteSize((long) (value * multiplier));
    }
   @Override
   public String toString() {
       return bytes + " bytes";
}
```