| You will be asked about one of these algorithms on the final:  | Review of Required<br>Array Algorithms                             |
|--|--|
| binary search<br>Dutch national flag   | Reasons for this:  |
| partition algorithm  | 1. Important algorithms.   |
| insertion sort selection sort  | 2. Forces you to think in terms of specifications.                 |
| You have to know the specifications  | <ol> <li>Forces you do learn to<br/>develop invariants.</li> </ol> |
| of these algorithms. Memorize them.  | 4. Forces you to learn to  |
| Then, develop an invariant from<br>the spec and develop the loop from<br>using 4 loopy questions. An algorithm | use the four loopy<br>questions in reading or<br>developing a loop |
| given without the Inv or an algorithm  |  |
| that doesn't use the inv is simply wron  | g. 1   |











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