

Data Structures

Lab 3 - Array-Based Lists

Agenda

01 Array-Based Lists

How to create array based lists light and full implementations

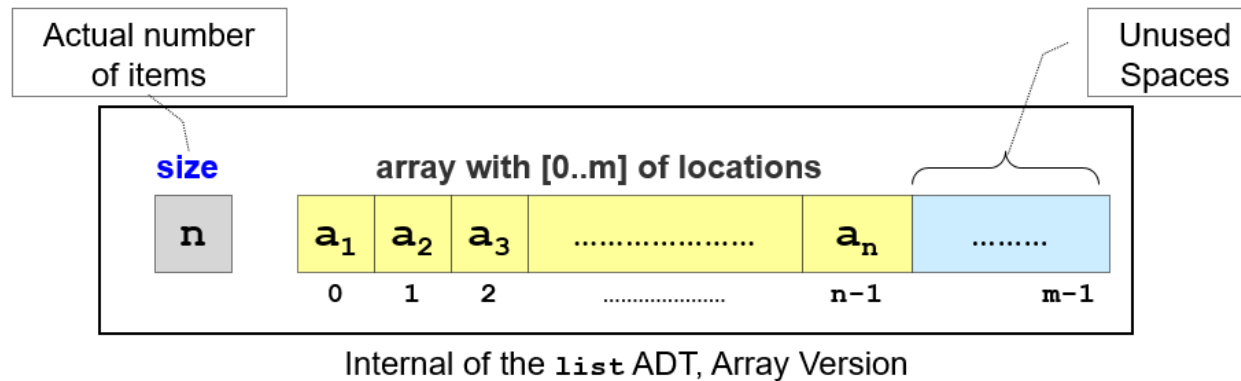
Array-Based Lists

01

```
17  do_action( 'woocommerce_before_single_product' );
18  ?>
19
20  <div itemscope itemtype="http://schema.org/Product" id="product-?php the_ID(); ?>" <?php post_class(); ?>
21
22  <div class="row">
23
24      <div class="large-9 columns">
25          <div class="row">
26              <div class="large-8 columns product-gallery">
27
28                  <?php
29                  /**
30                   * woocommerce_show_product_images hook
31                   *
32                   * @hooked woocommerce_show_product_sale_flash - 10
33                   * @hooked woocommerce_show_product_images - 20
34                   */
35                  do_action( 'woocommerce_before_single_product_summary' );
36              ?>
37
38          </div><!-- end large-6 - product-gallery -->
39
40          <div class="product-info large-12 small-12 columns left">
41              <div class="droite">
42                  <?php
43                  /**
44                   * woocommerce_single_product_summary hook
45                   *
46                   * @hooked woocommerce_template_single_title - 5
47                   * @hooked woocommerce_template_single_price - 10
48                   * @hooked ProductShowReviews() (inc/template-tags.php) - 15
49                   * @hooked woocommerce_template_single_excerpt - 20
50                   * @hooked woocommerce_template_single_add_to_cart - 30
51                   * @hooked woocommerce_template_single_meta - 40
52                   * @hooked woocommerce_template_single_sharing - 50
53                   */
54                  do_action( 'woocommerce_single_product_summary' );
55              ?>
56          </div><!-- end product-info large-4 -->
57
58      </div><!-- row -->
59
60
61      <div class="row">
62          <div class="large-12 columns">
63
```

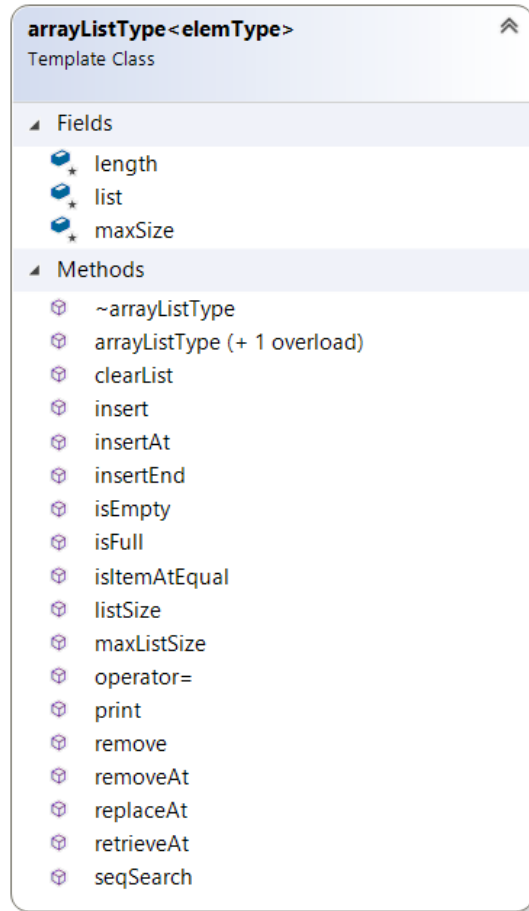
Array-Based Lists

- **List** is a collection of elements of the same **type**.
- List has a **length** which represents the **number** of **elements** inside it.
- **Array-Based** lists implements the lists using **arrays**.
- In the following diagram, n represents length and m represents max size.



Array-Based Lists Cont.

- Our target is to implement **Array-Based** lists as an ADT.



Array-Based Lists Cont.

- Look at “ArrayBasedList light implementation” folder
- Look at “ArrayBasedList full implementation” folder



Next time **Array-Based Stacks**