

Някои функции за работа със списъци, реализирани в Prelude.hs:

|                     |                                      |  |
|---------------------|--------------------------------------|--|
| <code>:</code>      | <code>a -&gt; [a] -&gt; [a]</code>   | Add a single element to the front of a list.<br><code>1:[2,3] =&gt; [1,2,3]</code>   |
| <code>++</code>     | <code>[a] -&gt; [a] -&gt; [a]</code> | Join two lists together.<br><code>"ab"++"cde" =&gt; "abcde"</code>   |
| <code>!!</code>     | <code>[a] -&gt; Int -&gt; a</code>   | <code>xs!!n</code> returns the <code>n</code> th element of <code>xs</code> , starting at the beginning and counting from 0.<br><code>[14,7,3]!!1 =&gt; 7</code> |
| <code>concat</code> | <code>[[a]] -&gt; [a]</code>         | Concatenate a list of lists into a single list.<br><code>concat [[2,3],[],[4]] =&gt; [2,3,4]</code>  |
| <code>length</code> | <code>[a] -&gt; Int</code>           | The length of the list.<br><code>length "word" =&gt; 4</code>  |

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| head      | [a] -> a          | The first element of the list.<br>head "word" => 'w'                   |
| last      | [a] -> a          | The last element of the list.<br>last "word" => 'd'                    |
| tail      | [a] -> [a]        | All but the first element of the list.<br>tail "word" => "ord"         |
| init      | [a] -> [a]        | All but the last element of the list.<br>init "word" => "wor"          |
| replicate | Int -> a -> [a]   | Make a list of n copies of the item.<br>replicate 3 'c' => "ccc"       |
| take      | Int -> [a] -> [a] | Take n elements from the front of a list.<br>take 3 "Peccary" => "Pec" |

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|----------------|--|--|
| <b>drop</b>    | <code>Int -&gt; [a] -&gt; [a]</code>   | Drop n elements from the front of a list.<br><code>drop 3 "Peccary" =&gt;</code><br><code>"cary"</code>          |
| <b>splitAt</b> | <code>Int-&gt;[a]-&gt;([a],[a])</code> | Split a list at a given position.<br><code>splitAt 3 "Peccary" =&gt;</code><br><code>("Pec","cary")</code>       |
| <b>reverse</b> | <code>[a] -&gt; [a]</code>             | Reverse the order of the elements.<br><code>reverse [1,2,3] =&gt;</code><br><code>[3,2,1]</code>                 |
| <b>zip</b>     | <code>[a]-&gt;[b]-&gt;[(a,b)]</code>   | Take a pair of lists into a list of pairs.<br><code>zip [1,2] [3,4,5] =&gt;</code><br><code>[(1,3),(2,4)]</code> |

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|---------|--|--|
| unzip   | <code>[(a,b)] -&gt; ([a],[b])</code>                             | Take a list of pairs into a pair of lists.<br><code>unzip [(1,5),(2,6)] =&gt; ([1,2],[5,6])</code> |
| and     | <code>[Bool] -&gt; Bool</code>                                   | The conjunction of a list of Booleans.<br><code>and [True,False] =&gt; False</code>                |
| or      | <code>[Bool] -&gt; Bool</code>                                   | The disjunction of a list of Booleans.<br><code>or [True,False] =&gt; True</code>                  |
| sum     | <code>[Int] -&gt; Int</code><br><code>[Float] -&gt; Float</code> | The sum of a numeric list.<br><code>sum [2,3,4] =&gt; 9</code>                                     |
| product | <code>[Int] -&gt; Int</code><br><code>[Float] -&gt; Float</code> | The product of a numeric list.<br><code>product [0.1,0.4 .. 1] =&gt; 0.028</code>                  |