

Building and analysing lists

The aim of this activity is to familiarise you with using lists in Erlang, in particular the different way that lists can be formed and deconstructed.

Building and matching lists

In the Erlang shell try evaluating the following expressions

```
A = [1,2,4,1,3].
[2,3|A].
[97,104,97,33].
[2|[1,3|[4|[]]]].

[B|Bs] = [2,3|A].
A = tl(Bs).
[C,C|_] = [2,2,3,3,4].
C.
```

case expressions

In the Erlang shell try evaluating the following expressions

```
case [2,3,4] of
  [X,Y|_] -> X+Y;
  [S] -> S;
  _ -> 0
end.

case [6] of
  [X,Y|_] -> X+Y;
  [S] -> S;
  _ -> 0
end.

case [] of
  [X,Y|_] -> X+Y;
  [S] -> S;
  _ -> 0
end.
```
