

```
.et rand i = (new System.Random()).Next(i)
```





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```
[] -> []
| hd :: tl ->
    let index = index_fn(tl)
    (hd, List.nth tl index) :: pairs index_fn (removeIndex index tl)
```

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```
PROJECT EULER 28
et removeIndex 1 list =
let rec_removeIndex = function
    http://projecteuler.net/problem=28
    | 0, hd :: tl -> tl
    | n, hd :: tl -> hd :: _removeIndex (n - 1, tl)
    _removeIndex (i, list)
et rec pairs index_fn = function
    [] -> []
    hd :: tl ->
```

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let index = index_fn(tl)
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PROBLEM 28

 Starting with the number 1 and moving to the right in a clockwise direction a 5 by 5 spiral is formed as follows:

 21
 22
 23
 24
 25

 20
 7
 8
 9
 10

 19
 6
 1
 2
 11

 18
 5
 4
 3
 12

.et rec pairs index_fn = functi17 16 15 14 13

It can be verified that the sum of the numbers on the diagonals is 101. What is the sum of the numbers on the diagonals in a 1001 by 1001 spiral formed in the same way?

(hd, List.nth tl index) :: pairs index_fn (removeIndex index tl)

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LÖSNINGSPRESENTATION

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.et rec pairs index_fn = function
    [] -> []
    hd :: tl ->
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    (hd, List.nth tl index) :: pairs index_fn (removeIndex index tl)
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UTVÄRDERING

```
let rec__removeIndex = function
```

- Format
- Uppgift

```
n, hd :: tl -> hd :: _removeIndex (n - 1, tl)
```

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.et rec pairs index_fn = function
    [] -> []
    hd :: tl ->
    let index = index_fn(tl)
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