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## Shift left

X26035\_en

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Design a circuit that shifts an  $N$ -bus one position to the left.  $N$  must be a parameter of the circuit with default value 8.

### Specification

```
module shift_left (in, out);  
  parameter N=8;  
  input [N-1:0] in;  
  output [N-1:0] out;
```

### Input

- *in* is the  $N$ -bit input bus.

### Output

- *out* is the value of the bus shifted one position to the left.

### Problem information

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