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Rust Program Output:

```
Sayali-MacBook-Air:rusttt sayalideshmukh$ ./calculator
Enter the values and commands
> 12
values in stack:[12]
> 10
values in stack:[12, 10]
> addition
values in stack:[22]
> clear
> 2
values in stack:[2]
> 4
values in stack:[2, 4]
> subtraction
values in stack:[-2]
> clear
> 2
values in stack:[2]
> 42
values in stack:[2, 42]
> division
values in stack:[0]
> clear
> 3
values in stack:[3]
> 2
values in stack:[3, 2]
> multiplication
values in stack:[6]
> clear
> 2
values in stack:[2]
> 4
values in stack:[2, 4]
> shiftleft
values in stack:[32]
```

```
Sayali-MacBook-Air:rusttt sayalideshmukh$ ./calculator
Enter the values and commands
> 4
values in stack:[4]
> 2
values in stack:[4, 2]
> shiftright
values in stack:[1]
> 3
values in stack:[1, 3]
> bitand
values in stack:[1]
> 4
values in stack:[1, 4]
> bitor
values in stack:[5]
> clear
> 12
values in stack:[12]
> 4
values in stack:[12, 4]
> remainder
values in stack:[0]
> 4
values in stack:[0, 4]
> 3
values in stack:[0, 4, 3]
> negation
values in stack:[0, 4, -3]
> 5
values in stack:[0, 4, -3, 5]
> clear
> 4
values in stack:[4]
> negation
values in stack:[-4]
> not
values in stack:[3]
> clear
```

References:

https://github.com/ElectricCoffee/stack_calculator/blob/master/src/main.rs

<https://doc.rust-lang.org/std/ops/index.html>

[https://web.mit.edu/rust-
lang_v1.25/arch/amd64_ubuntu1404/share/doc/rust/html/reference/expressions/operator
-expr.html](https://web.mit.edu/rust-lang_v1.25/arch/amd64_ubuntu1404/share/doc/rust/html/reference/expressions/operator-expr.html)