

```
1 class ALU: # Arithmetic Logic Unit = Rechenwerk
2     def __init__(self):
3         self.operand = "0"
4         self.acc = "0"
5         self.operation = " "
6         self.result = "0"
7
8     def compute(self):
9         if self.operation == "?": # cmp
10             if int(self.acc) > int(self.operand):
11                 self.result = "1"
12             elif int(self.acc) == int(self.operand):
13                 self.result = "0"
14             else:
15                 self.result = "-1"
16
17         else:
18             if self.operation == "+": # add
19                 self.result = str(int(int(self.acc) + int(self.operand)))
20
21             elif self.operation == "-": # sub
22                 self.result = str(int(int(self.acc) - int(self.operand)))
23
24             elif self.operation == "*": # mul
25                 self.result = str(int(int(self.acc) * int(self.operand)))
26
27             elif self.operation == "/": # div
28                 self.result = str(int(int(self.acc) / int(self.operand)))
29
30             elif self.operation == "%": # mod
31                 self.result = str(int(int(self.acc) % int(self.operand)))
32
33         self.acc = self.result
```