

```
Last login: Thu Jun  1 13:51:34 on ttys003
/Users/krzysztof-test/Documents/Code/Uni/ALP4/Blatt\ 6/Aufgabe1 ;
exit;
(base) > ~ (main) ✖ /Users/krzysztof-test/Documents/Code/Uni/ALP4/
Blatt\ 6/Aufgabe1 ; exit;
In main: creating thread 0
In main: creating thread 1
Producer 0 puts 0 into buffer at place 0
Producer 0 puts 1 into buffer at place 1
Producer 0 puts 2 into buffer at place 2
Consumer 1 takes 2
Buffer: [0, 1, 0]
Consumer 1 takes 1
Buffer: [0, 0, 0]
Consumer 1 takes 0
Buffer: [0, 0, 0]
In main: creating thread 2
Producer 0 puts 3 into buffer at place 0
Producer 0 puts 4 into buffer at place 1
Producer 0 puts 5 into buffer at place 2
Consumer 1 takes 5
Buffer: [3, 4, 0]
Consumer 1 takes 4
Buffer: [3, 0, 0]
Consumer 1 takes 3
Buffer: [0, 0, 0]
Producer 0 puts 6 into buffer at place 0
Producer 0 puts 7 into buffer at place 1
Producer 0 puts 8 into buffer at place 2
Consumer 1 takes 8
Buffer: [6, 7, 0]
Consumer 1 takes 7
Buffer: [6, 0, 0]
Consumer 1 takes 6
Buffer: [0, 0, 0]
In main: creating thread 3
Producer 0 puts 9 into buffer at place 0
Producer 0 puts 10 into buffer at place 1
Consumer 2 takes 10
Buffer: [9, 0, 0]
Consumer 3 takes 9
Buffer: [0, 0, 0]
Producer 0 puts 11 into buffer at place 0
Producer 0 puts 12 into buffer at place 1
Producer 0 puts 13 into buffer at place 2
Consumer 1 takes 13
Buffer: [11, 12, 0]
Consumer 1 takes 12
Buffer: [11, 0, 0]
Consumer 2 takes 11
Buffer: [0, 0, 0]
Producer 0 puts 14 into buffer at place 0
Producer 0 puts 15 into buffer at place 1
Producer 0 puts 16 into buffer at place 2
```

Consumer 3 takes 16
Buffer: [14, 15, 0]
Consumer 3 takes 15
Buffer: [14, 0, 0]
Consumer 3 takes 14
Buffer: [0, 0, 0]
Producer 0 puts 17 into buffer at place 0
Producer 0 puts 18 into buffer at place 1
Producer 0 puts 19 into buffer at place 2
Consumer 3 takes 19
Buffer: [17, 18, 0]
Consumer 3 takes 18
Buffer: [17, 0, 0]
Consumer 3 takes 17
Buffer: [0, 0, 0]
Producer 0 puts 20 into buffer at place 0
Producer 0 puts 21 into buffer at place 1
Producer 0 puts 22 into buffer at place 2
Consumer 3 takes 22
Buffer: [20, 21, 0]
Consumer 3 takes 21
Buffer: [20, 0, 0]
Consumer 3 takes 20
Buffer: [0, 0, 0]
Producer 0 puts 23 into buffer at place 0
Producer 0 puts 24 into buffer at place 1
Producer 0 puts 25 into buffer at place 2
Consumer 1 takes 25
Buffer: [23, 24, 0]
Consumer 2 takes 24
Buffer: [23, 0, 0]
Consumer 2 takes 23
Buffer: [0, 0, 0]
Producer 0 puts 26 into buffer at place 0
Producer 0 puts 27 into buffer at place 1
Producer 0 puts 28 into buffer at place 2
Consumer 2 takes 28
Buffer: [26, 27, 0]
Consumer 2 takes 27
Buffer: [26, 0, 0]
Consumer 2 takes 26
Buffer: [0, 0, 0]
Producer 0 puts 29 into buffer at place 0
Producer 0 puts 30 into buffer at place 1
Producer 0 puts 31 into buffer at place 2
Consumer 3 takes 31
Buffer: [29, 30, 0]
Consumer 2 takes 30
Buffer: [29, 0, 0]
Consumer 2 takes 29
Buffer: [0, 0, 0]
Producer 0 puts 32 into buffer at place 0
Producer 0 puts 33 into buffer at place 1
Producer 0 puts 34 into buffer at place 2

Consumer 2 takes 34
Buffer: [32, 33, 0]
Consumer 3 takes 33
Buffer: [32, 0, 0]
Consumer 3 takes 32
Buffer: [0, 0, 0]
Producer 0 puts 35 into buffer at place 0
Consumer 3 takes 35
Buffer: [0, 0, 0]
Producer 0 puts 36 into buffer at place 0
Producer 0 puts 37 into buffer at place 1
Producer 0 puts 38 into buffer at place 2
Consumer 2 takes 38
Buffer: [36, 37, 0]
Consumer 2 takes 37
Buffer: [36, 0, 0]
Consumer 2 takes 36
Buffer: [0, 0, 0]
Producer 0 puts 39 into buffer at place 0
Producer 0 puts 40 into buffer at place 1
Producer 0 puts 41 into buffer at place 2
Consumer 1 takes 41
Buffer: [39, 40, 0]
Consumer 1 takes 40
Buffer: [39, 0, 0]
Consumer 1 takes 39
Buffer: [0, 0, 0]
Producer 0 puts 42 into buffer at place 0
Producer 0 puts 43 into buffer at place 1
Consumer 1 takes 43
Buffer: [42, 0, 0]
Consumer 1 takes 42
Buffer: [0, 0, 0]
Producer 0 puts 44 into buffer at place 0
Producer 0 puts 45 into buffer at place 1
Consumer 1 takes 45
Buffer: [44, 0, 0]
Consumer 2 takes 44
Buffer: [0, 0, 0]
Producer 0 puts 46 into buffer at place 0
Producer 0 puts 47 into buffer at place 1
Producer 0 puts 48 into buffer at place 2
Consumer 2 takes 48
Buffer: [46, 47, 0]
Consumer 2 takes 47
Buffer: [46, 0, 0]
Consumer 3 takes 46
Buffer: [0, 0, 0]
Producer 0 puts 49 into buffer at place 0
Producer 0 puts 50 into buffer at place 1
Producer 0 puts 51 into buffer at place 2
Consumer 2 takes 51
Buffer: [49, 50, 0]
Consumer 2 takes 50

Buffer: [49, 0, 0]
Consumer 2 takes 49
Buffer: [0, 0, 0]
Producer 0 puts 52 into buffer at place 0
Producer 0 puts 53 into buffer at place 1
Producer 0 puts 54 into buffer at place 2
Consumer 3 takes 54
Buffer: [52, 53, 0]
Consumer 3 takes 53
Buffer: [52, 0, 0]
Consumer 3 takes 52
Buffer: [0, 0, 0]
Producer 0 puts 55 into buffer at place 0
Producer 0 puts 56 into buffer at place 1
Consumer 3 takes 56
Buffer: [55, 0, 0]
Consumer 3 takes 55
Buffer: [0, 0, 0]
Producer 0 puts 57 into buffer at place 0
Producer 0 puts 58 into buffer at place 1
Producer 0 puts 59 into buffer at place 2
Consumer 3 takes 59
Buffer: [57, 58, 0]
Consumer 3 takes 58
Buffer: [57, 0, 0]
Consumer 2 takes 57
Buffer: [0, 0, 0]
Producer 0 puts 60 into buffer at place 0
Consumer 1 takes 60
Buffer: [0, 0, 0]
Producer 0 puts 61 into buffer at place 0
Producer 0 puts 62 into buffer at place 1
Producer 0 puts 63 into buffer at place 2
Consumer 3 takes 63
Buffer: [61, 62, 0]
Consumer 3 takes 62
Buffer: [61, 0, 0]
Consumer 3 takes 61
Buffer: [0, 0, 0]
Producer 0 puts 64 into buffer at place 0
Consumer 3 takes 64
Buffer: [0, 0, 0]
Producer 0 puts 65 into buffer at place 0
Producer 0 puts 66 into buffer at place 1
Producer 0 puts 67 into buffer at place 2
Consumer 3 takes 67
Buffer: [65, 66, 0]
Consumer 1 takes 66
Buffer: [65, 0, 0]
Consumer 1 takes 65
Buffer: [0, 0, 0]
Producer 0 puts 68 into buffer at place 0
Producer 0 puts 69 into buffer at place 1
Producer 0 puts 70 into buffer at place 2

Consumer 1 takes 70
Buffer: [68, 69, 0]
Consumer 1 takes 69
Buffer: [68, 0, 0]
Consumer 1 takes 68
Buffer: [0, 0, 0]
Producer 0 puts 71 into buffer at place 0
Producer 0 puts 72 into buffer at place 1
Producer 0 puts 73 into buffer at place 2
Consumer 1 takes 73
Buffer: [71, 72, 0]
Consumer 1 takes 72
Buffer: [71, 0, 0]
Consumer 2 takes 71
Buffer: [0, 0, 0]
Producer 0 puts 74 into buffer at place 0
Producer 0 puts 75 into buffer at place 1
Producer 0 puts 76 into buffer at place 2
Consumer 1 takes 76
Buffer: [74, 75, 0]
Consumer 1 takes 75
Buffer: [74, 0, 0]
Producer 0 puts 77 into buffer at place 1
Consumer 1 takes 77
Buffer: [74, 0, 0]
Consumer 1 takes 74
Buffer: [0, 0, 0]
Producer 0 puts 78 into buffer at place 0
Producer 0 puts 79 into buffer at place 1
Producer 0 puts 80 into buffer at place 2
Consumer 1 takes 80
Buffer: [78, 79, 0]
Consumer 1 takes 79
Buffer: [78, 0, 0]
Consumer 1 takes 78
Buffer: [0, 0, 0]
Producer 0 puts 81 into buffer at place 0
Producer 0 puts 82 into buffer at place 1
Consumer 2 takes 82
Buffer: [81, 0, 0]
Consumer 3 takes 81
Buffer: [0, 0, 0]
Producer 0 puts 83 into buffer at place 0
Consumer 3 takes 83
Buffer: [0, 0, 0]
Producer 0 puts 84 into buffer at place 0
Producer 0 puts 85 into buffer at place 1
Producer 0 puts 86 into buffer at place 2
Consumer 3 takes 86
Buffer: [84, 85, 0]
Consumer 3 takes 85
Buffer: [84, 0, 0]
Producer 0 puts 87 into buffer at place 1
Consumer 1 takes 87

Buffer: [84, 0, 0]
Consumer 1 takes 84
Buffer: [0, 0, 0]
Producer 0 puts 88 into buffer at place 0
Producer 0 puts 89 into buffer at place 1
Producer 0 puts 90 into buffer at place 2
Consumer 3 takes 90
Buffer: [88, 89, 0]
Consumer 3 takes 89
Buffer: [88, 0, 0]
Producer 0 puts 91 into buffer at place 1
Consumer 1 takes 91
Buffer: [88, 0, 0]
Consumer 1 takes 88
Buffer: [0, 0, 0]
Producer 0 puts 92 into buffer at place 0
Producer 0 puts 93 into buffer at place 1
Producer 0 puts 94 into buffer at place 2
Consumer 2 takes 94
Buffer: [92, 93, 0]
Consumer 2 takes 93
Buffer: [92, 0, 0]
Producer 0 puts 95 into buffer at place 1
Producer 0 puts 96 into buffer at place 2
Consumer 1 takes 96
Buffer: [92, 95, 0]
Consumer 1 takes 95
Buffer: [92, 0, 0]
Consumer 1 takes 92
Buffer: [0, 0, 0]
Producer 0 puts 97 into buffer at place 0
Producer 0 puts 98 into buffer at place 1
Producer 0 puts 99 into buffer at place 2
Consumer 2 takes 99
Buffer: [97, 98, 0]
Consumer 2 takes 98
Buffer: [97, 0, 0]
Consumer 2 takes 97
Buffer: [0, 0, 0]