

Synthesized solution for benchmark 03buffer.c

```

solution
├── (Partial), cond: brk < 1
│   ├── {
│   │   Cond : a6
│   │   k1 = fv_1 = 1024; buffer = array_alloc(fv_1); i = 0; brk = 0; (a6.c = getchar();
│   │   (c12.brk = 1; +¬c12.(b11.brk = 1; +¬b11.() = array_write(buffer, i, c); i = i + .i, ?1; ))) *¬a6
│   │   k2 = fv_2 = 1024; buffer = array_alloc(fv_2); i = 0; brk = 0; (a19.c = getchar();
│   │   (c24.brk = 1; +¬c24.(b23.brk = 1; +¬b23.brk = 1; ))) *¬a19
│   │   AComplete
│   │   └── {
│   │       Axioms : {M = 1, N = 1, Y = L, W = 1, O = 1, P = 1}
│   │       k1 = fv_1 = 1024; buffer = array_alloc(fv_1); i = 0; brk = 0; 1.(a6.c = getchar();
│   │       (c12.brk = 1; +¬c12.(b11.brk = 1; +¬b11.() = array_write(buffer, i, c); i = i + .i, ?1; ))) *¬a6
│   │       k2 = fv_2 = 1024; buffer = array_alloc(fv_2); i = 0; brk = 0; (a19.c = getchar();
│   │       (c24.brk = 1; +¬c24.(b23.brk = 1; +¬b23.brk = 1; ))) *¬a19
│   │   }
│   }
│   └── {
│       Cond : ¬a6
│       k1 = fv_1 = 1024; buffer = array_alloc(fv_1); i = 0; brk = 0; (a6.c = getchar();
│       (c12.brk = 1; +¬c12.(b11.brk = 1; +¬b11.() = array_write(buffer, i, c); i = i + .i, ?1; ))) *¬a6
│       k2 = fv_2 = 1024; buffer = array_alloc(fv_2); i = 0; brk = 0; (a19.c = getchar();
│       (c24.brk = 1; +¬c24.(b23.brk = 1; +¬b23.brk = 1; ))) *¬a19
│   }
│   └── (Partial), cond: brk < 1
│       ├── {
│       │   Cond : ¬a19
│       │   k1 = fv_1 = 1024; buffer = array_alloc(fv_1); i = 0; brk = 0; 0.0
│       │   k2 = fv_2 = 1024; buffer = array_alloc(fv_2); i = 0; brk = 0; (a19.c = getchar();
│       │   (c24.brk = 1; +¬c24.(b23.brk = 1; +¬b23.brk = 1; ))) *¬a19
│       │   AComplete
│       │   └── {
│       │       Axioms : {M = 1, N = 1, Y = L, W = 1, O = 1}
│       │       k1 = fv_1 = 1024; buffer = array_alloc(fv_1); i = 0; brk = 0; 0.0
│       │       k2 = fv_2 = 1024; buffer = array_alloc(fv_2); i = 0; brk = 0; 0.0
│       │   }
│       }

```

Remaining 190 solutions omitted for brevity.