```
int buf, p = 0, c = 0;
process Producer {
  int a[n];
  while (p < n) {
    ⟨await (p == c);⟩
    buf = a[p];
    p = p+1;
  }
}
process Consumer {
  int b[n];
  while (c < n) {
    ⟨await (p > c);⟩
    b[c] = buf;
    c = c+1;
  }
}
```

**Figure 2.2** Copying an array from a producer to a consumer.

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