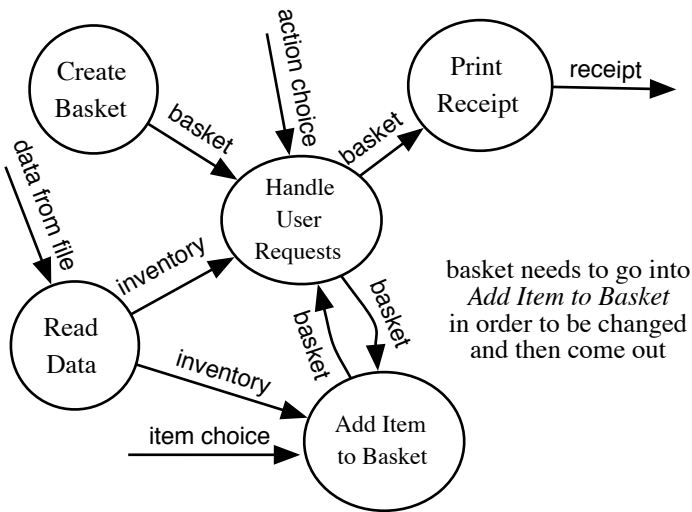


Corrected DFD



S -> A S A | A

A -> c | a b A

abcababcabc

S -> ASA

-> abASA

-> abcSA

-> abcAA

-> abcabAA

-> abcababAA

-> abcababcA

-> abcababcabA

-> abcababcabc

P: $\{x \geq 0\}$

↑

```

{true && x ≥ 0}
{y + (x * y) - y = x * y && x ≥ 0}
{y + ((x - 1) * y) = x * y && x ≥ 0}
  m = y
{m + ((x - 1) * y) = x * y && x ≥ 0}
  n = x
{m + ((n - 1) * y) = x * y && x ≥ 0}
  n = n - 1
{m + (n * y) = x * y && x ≥ 0}
  m = m + (n * y)
{m = x * y && x ≥ 0}
    
```

Q: $\{m = x * y \text{ \&\& } x \geq 0\}$

