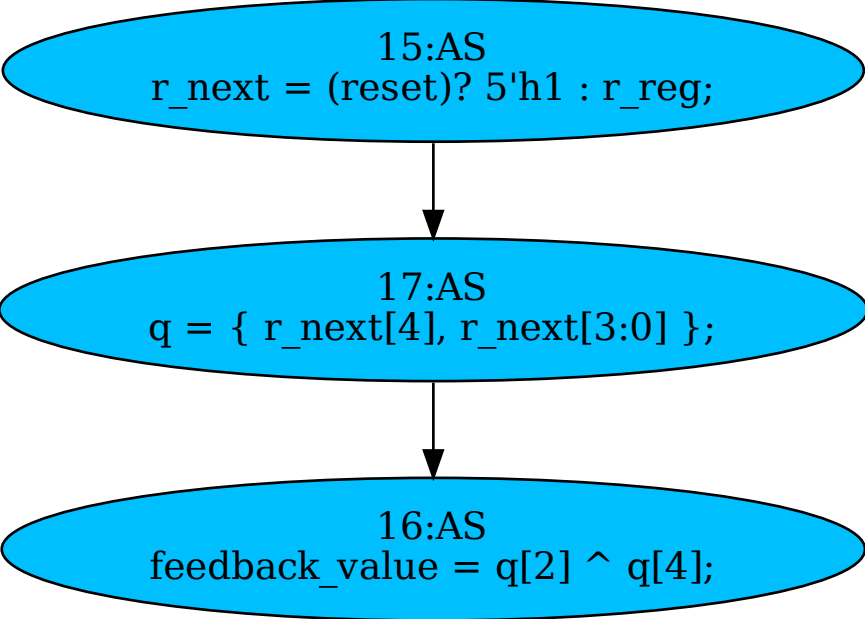


15:AS
`r_next = (reset)? 5'h1 : r_reg;`



```
graph TD; A([15:AS  
r_next = (reset)? 5'h1 : r_reg;]) --> B([17:AS  
q = { r_next[4], r_next[3:0] };]); B --> C([16:AS  
feedback_value = q[2] ^ q[4];]);
```

17:AS
`q = { r_next[4], r_next[3:0] };`

16:AS
`feedback_value = q[2] ^ q[4];`