a)
```
for (i = 0; i < w; i++)
{
    if (<cond_i>)
    {
        // prob. p, len. t_1
        <block_1>;
    }
    else
    {
        // prob. 1-p, len. t_2
        <block_2>;
    }
}
```

b)
```
<vblock_1> ? <vcond>;

if (~<vcond>)
{
    for (i = 0; i < w; i++)
    {
        if (!<cond_i>)
        {
            <block_2>;
        }
    }
}
```

vectorization

vectorized condition

c)
```
<vblock_1> ? <vcond>;
<vblock_2> ? ~<vcond>;
```

d)
```
<vblock_1> ? <vcond>;

if (~<vcond>)
{
    <vblock_2> ? ~<vcond>;
}
```