

```
is_q = true;
while (is_q)
{
    is_q = false;
```

```
    for (int c = 0; c < domains_count; ++c)
    {
```

```
        if (front[c] <= back[c])
        {
```

```
            is_q = true;
```

```
            n = q[c][front[c]];
            front[c]++;
```

```
        }
        if (domains[n] == -1)
        {
```

```
            cnt = inc[n][0];
            domains[n] = c;
```

```
        }
        for (int i = 0; i < cnt; ++i)
        {
```

```
            ngh = inc[n][i + 1];
            back[c]++;
            q[c][back[c]] = ngh;
```

```
        }
```

```
    }
```

```
}
```

```
}
```

```
}
```

```
is_q = CMPL(0xFFFF, vf, vb);
while (is_q)
{
```

```
    vn = GTH2(v0, is_q, vqoff, vf, q[0]);
    vf = ADD(v0, is_q, vf, v1);
    vd = GTH(v0, is_q, vn, domains);
    is_no_domain = CMPLT(is_q, vd, v0);
```

```
    if (is_no_domain)
    {
```

```
        vinct = GTH(v0, is_no_domain, vn, incoff);
        vcnt = GTH(v0, is_no_domain, vinct, inc[0]);
        SCT(domains, is_no_domain, vn, vc);
```

```
        vi = v1;
        is_ngh = CMPL(is_no_domain, vi, vcnt);
```

```
        while (is_ngh)
        {
```

```
            vngh = GTH2(v0, is_ngh, vinct, vi, inc[0]);
            vb = ADD(vb, is_ngh, vb, v1);
            SCT2(q[0], is_ngh, vqoff, vb, vngh);
```

```
            vi = ADD(v0, is_ngh, vi, v1);
            is_ngh = CMPL(is_ngh, vi, vcnt);
```

```
        }
```

```
    }
```

```
is_q = CMPL(is_q, vf, vb);
}
```

1

3

2

4

5

6