

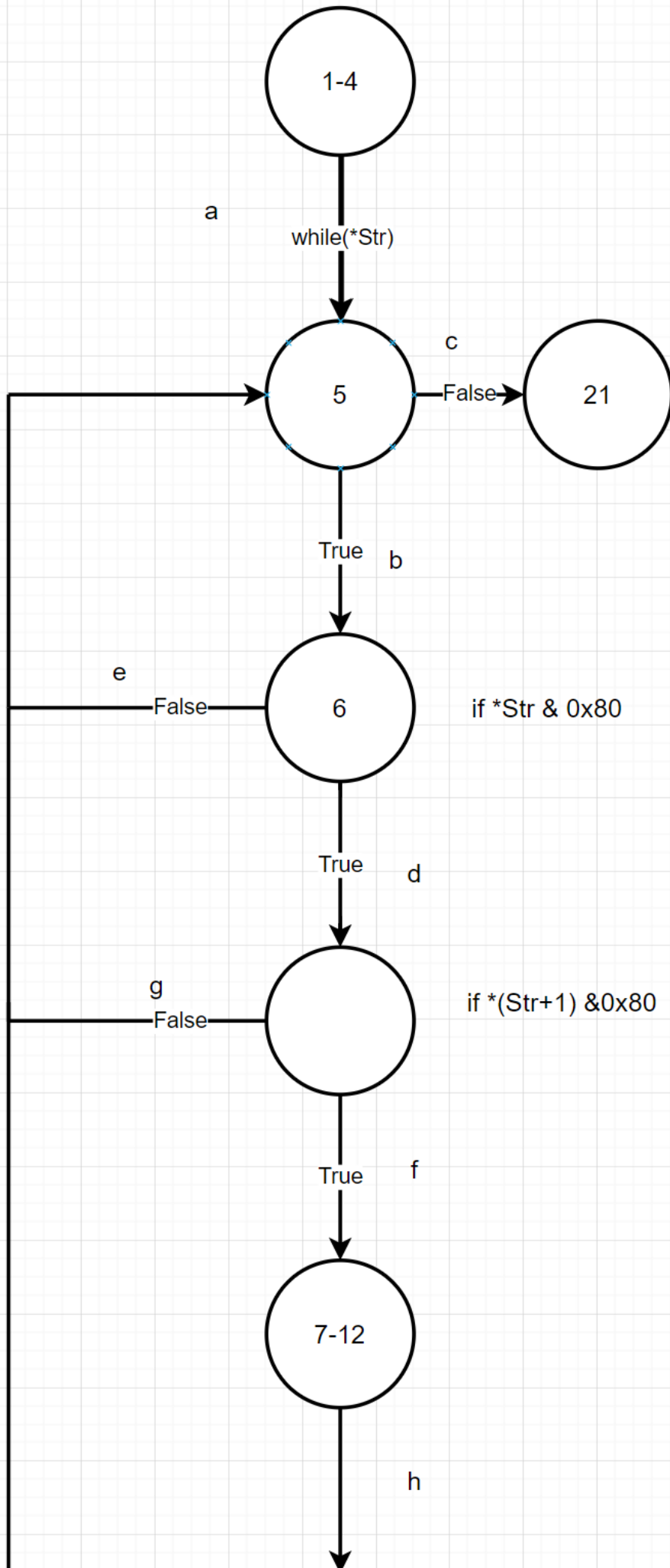
练习12

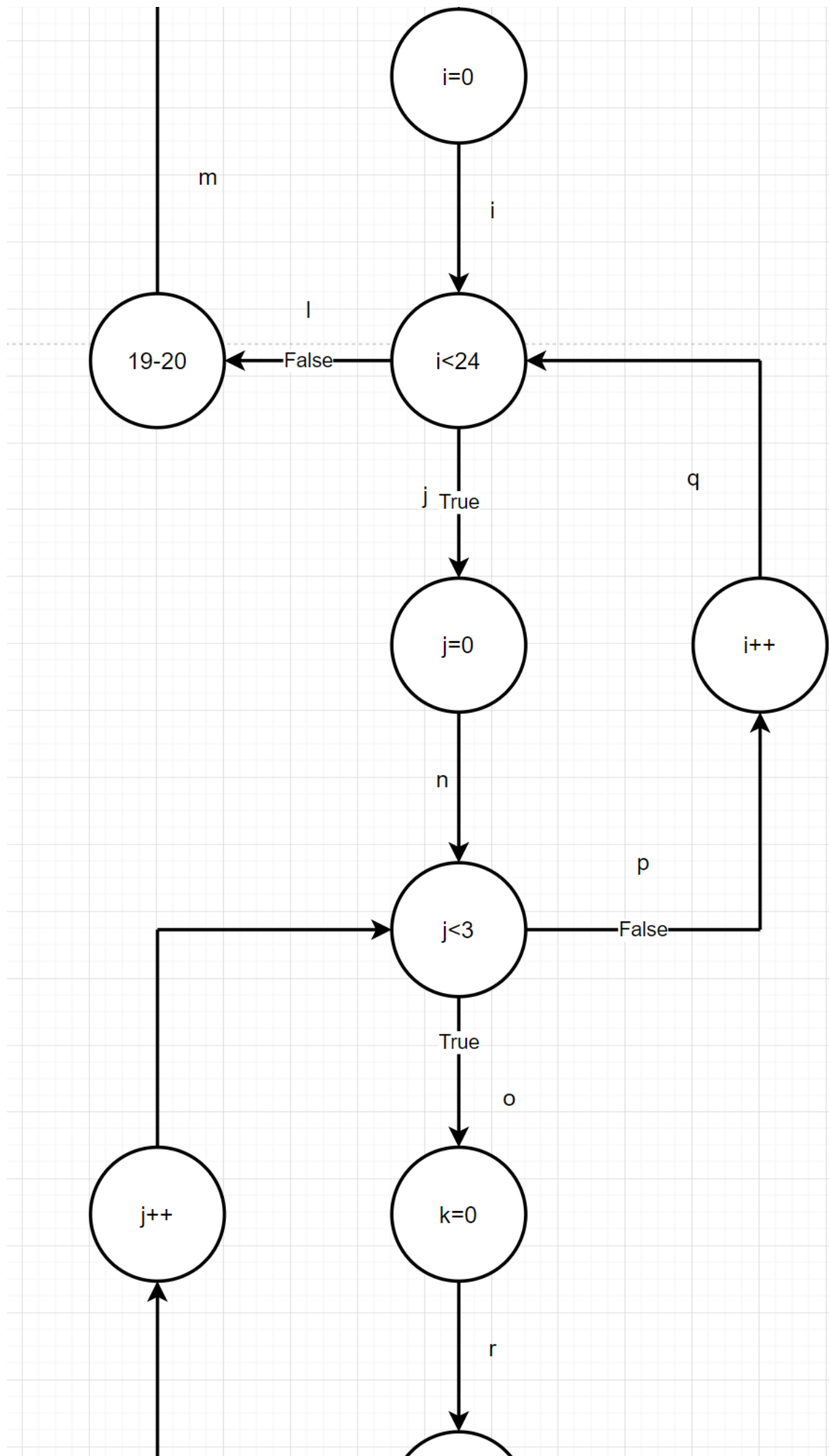
题目

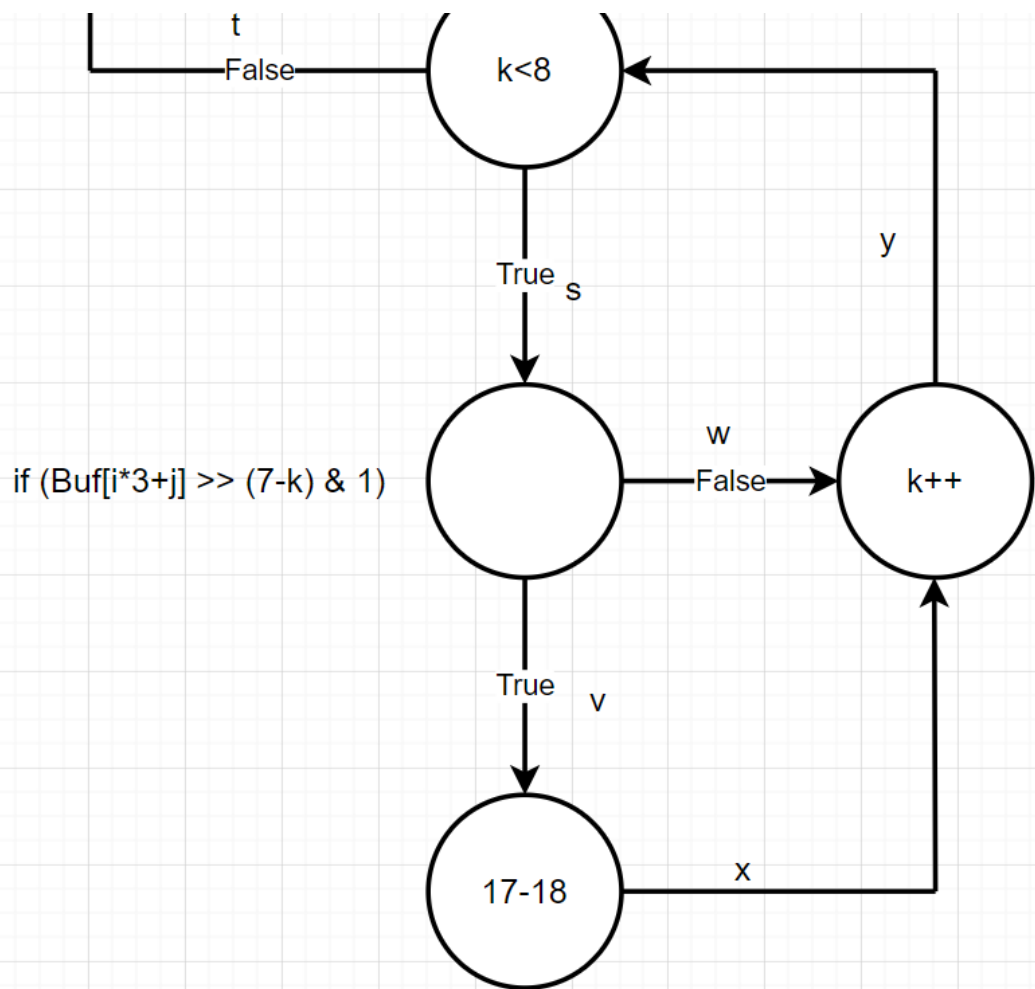
按照下列C语言程序前的编号，构建起程序图（control flow graph or program diagram），不需要理解具体的代码实现内容，只要理解其逻辑即可。

```
0 void ModuleX (int x, int y, int wid, char *Str)
  {
1     unsigned Zcode, Bcode;
2     int i, j, k, Rec, Color;
3     long Len;
4     char Buf[72];
5     while (*Str)
      {
6         if ((*Str & 0x80) && (*(Str+1) & 0x80))
            {
7             Zcode = (*Str-0xa1) & 0x07f;
8             Bcode = (*(Str+1)-0xa1) & 0x07f;
9             Rec = Zcode*94+Bcode;
10            Len = Rec*72L;
11            fseek(fp, Len, SEEK_SET);
12            fread (Buf, 1, 72, fp);
13            for (i = 0; i < 24; i++)
14                for (j = 0; j < 3; j++)
15                    for (k = 0; k < 8; k++)
16                        if (Buf[i*3+j] >> (7-k) & 1)
17                            {
18                                color = y+j*8+k-46;
19                                PutPoint(x+i, y+j*8+k, color);
18-1                }
19            x = x+24+wid;
20            Str += 2;
6-1        }
5-1    }
21    return;
  }
```

按照题意：







计算其(圈复杂度)为

$$V(G) = e - n + 2 * p = 24 - 18 + 2 = 8$$

因此有8条基路径

考虑其基路径为：

- ac
- abec
- abdgc
- abdfhilmc
- abdfhijnplmc

- abdfhijnortupqlmc
- abdfhijnorswytupqlmc
- abdfhijnorsvxytupqlmc