سوال2:

```c
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#include <stdio.h>
#include <stdbool.h>

int main(void)
{
        bool p, q, s;
        switch (p)
        {
        case 0:switch (q)
                        {
                                case 0:switch (s)
                                                {
                                                case 0://st1
                                                default://st1 & st2
                                                break;
                                                }
                                case 1:switch (s)
                                                {
                                                case 0://st2 & st3
                                                default://st3 & st1
                                                break;
                                                }
                        break;
                        }

        case 1:switch (q)
                        {
                                case 0:switch (s)
                                                {
                                                case 0://st3
                                                default://st1 & st2 & st3
                                                break;
                                                }
                                case 1:switch (s)
                                                {
                                                case 0://st1
                                                default://st2
                                                break;
                                                }

                        break;
                        }
                break;
        }
return 0;
}
```