SQA Assignment 2 Solution – Spring 2020

Problem 1:

V(G) = 4

Path #	Path	C1	C2	С3
1	1-2-3-4-6-7-9-10-15	Т	Т	Т
2	1-2-3-4-6-7-9-13-15	Т	Т	F
3	1-2-3-4-6-9-13-15	Т	F	F
4	1-2-3-6-9-13-15	F	F	F

Problem 2:

V(G) = 7

Path #	Path	C1	C2	C3	C4	C5	C6
1	1-2-8-12-13-17	F	Х	Х	F	Х	F
2	1-2-8-12-13-14-17	F	Х	Х	F	Х	Т
3	1-2-8-9-17	F	Х	х	Т	Т	Х
4	1-2-3-4-8-12-13-17	Т	F	х	F	х	F
5	1-2-3-4-8-12-13-14-17	Т	F	Х	F	Х	Т
6	1-2-3-4-5-8-12-13-17	Т	Т	Т	F	х	F
7	1-2-3-4-5-8-9-17	Т	Т	Т	Т	Т	Х

Problem 3:

V(G) = 6

Path #	Path	C1	C2	С3	C4	C5
1	1-2-14	F	X	Х	Х	Х
2	1-2-3-4-7-2-14	Т	F	Х	F	Х
3	1-2-3-4-7-8-9-7-2-14	Т	F	Х	Т	F
4	1-2-3-4-7-8-9-10-7-2-14	Т	F	Х	Т	Т

5	1-2-3-4-5-7-8-9-7-2-14	T	T	Т	T	F
6	1-2-3-4-5-7-8-9-10-7-2-14	T	T	Т	T	Т

Problem 4:

V(G) = 7

Path #	Path	C1	C2	C3	C4	C5	C6
1	1-2-14-15-22	F	Х	Х	Х	F	Х
2	1-2-14-15-16-17-15-22	F	Х	Х	Х	Т	F
3	1-2-14-15-16-17-18-17-15-22	F	Х	Х	Х	Т	Т
4	1-2-3-4-22	Т	F	Х	Х	Х	Х
5	1-2-3-4-5-9-4-22	Т	Т	F	Х	Х	Х
6	1-2-3-4-5-9-4-22	Т	Т	Т	F	Х	Х
7	1-2-3-4-5-6-4-22	Т	Т	Т	Т	х	Х