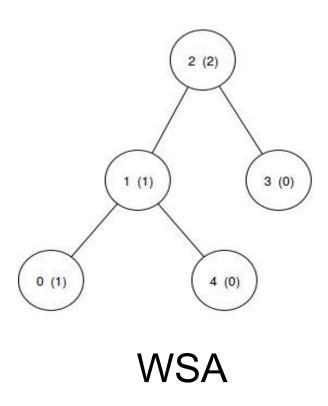
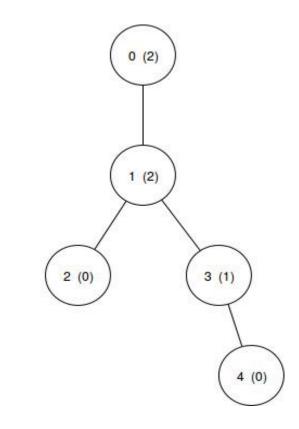
SPY UNION

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19.06.2017r.

SPY UNION - PRZYKLADOWY PROBLEM: UNION





PROGRAM CALKOWITOLICZBOWY:

$\min x_0 + x_1 + x_2 + x_3 + x_4$ Subject to: $x_0 \geqslant 1$ $x_0 + x_1 + x_2 + x_3 + x_4 \ge 2$ $x_0 + x_1 + x_4 \ge 1$ $x_1 + x_2 + x_3 + x_4 \ge 2$ $x_0 + x_1 + x_2 + x_3 + x_4 \ge 2$ $x_3 \geqslant 0$ $x_3 + x_4 \ge 1$ $x_4 \ge 0$ $x_4 \geqslant 0$

Bounds: $1 \ge x_0 \ge 0$ $1 \ge x_1 \ge 0$ $1 \ge x_2 \ge 0$ $1 \ge x_3 \ge 0$ $1 \ge x_4 \ge 0$ Generals: x_0

 x_1

 x_2

 x_3

 x_4

CZAS PRZEPROWADZONYCH TESTOW:

TEST	0	
real		0m5.668s
user		0m5.033s
sys		0m0.658s
TEST	1	Educa-
real		0m5.706s
user		0m5.069s
sys		0m0.666s
TEST	2	4 . A r
real		0m5.755s
user		0m5.133s
sys		0m0.654s

TEST 3	Sam areas
real	0m5.839s
user	0m5.198s
sys	0m0.649s
TEST 4	N 30
real	0m6.120s
user	0m5.501s
sys	0m0.649s
TEST 5	1
real	0m6.893s
user	0m6.248s
sys	0m0.649s

TEST 6	
real	0m9.360s
user	0m8.703s
sys	0m0.661s
TEST 7	===
real	0m21.286s
user	0m20.534s
sys	0m0.739s
TEST 8	
real	1m15.670s
user	1m14.396s
sys	0m1.083s

TEST 9	2.57.020
real	3m57.028s
user	3m54.114s
sys	0m2.255s
TEST 1	0
real	26m42.287s
user	26m23.066s
sys	0m14.329s

DZIEKUJEMY ZA UWAGE