

Contents

1	NsqrtN	1
1.1	Median with range incrementSEERC:SEERC14:NSQRTN:AC:MEDIAN	1
2	Matrix Exponentiation	1
2.1	Matrix as State transitionSWERC:SWERC2017:MATRIXEXPONENTIATION:STATETRANSITION:	
3	Flows	2
3.1	Min cost Bipartite MatchingSWERC:SWERC2017:HUNGARIAN:FLOW:MATCHING:MINWEIGHT	
3.2	Max Weight Bipartite MatchingSCI-TIES:SPOJ:BIPARTITE:MATCHING:MAXCOST:AC	2
4	Graphs	2
4.1	VertexInOneSimpleCycle.ccGRAPHS:CYCLESPACE:SIMPLECYCLE	2
5	Maths	2
5.1	PerfectSquareGroup.cc MATHS:EQUIVALENCE:RELATION:AC	2

1 NsqrtN

1.1 Median with range incrementSEERC:SEERC14:NSQRTN:AC:MEDIAN

Given N numbers find the median with range queries to increment segment value by one

2 Matrix Exponentiation

2.1 Matrix as State transitionSWERC:SWERC2017:MATRIXEXPONENTIATION:STATE

Given 1x2 domino pieces find number of ways to fill a 8xN board

3 Flows

3.1 Min cost Bipartite Matching `SWERC:SWERC2017:HUNGARIAN:FLOW:MATCHING`

3.2 Max Weight Bipartite Matching `SCI-TIES:SPOJ:BIPARTITE:MATCHING:MAXCOST:AC`

4 Graphs

4.1 `VertexInOneSimpleCycle.cc` `GRAPHS:CYCLESPACE:SIMPLECYCLE`

5 Maths

5.1 `PerfectSquareGroup.cc` `MATHS:EQUIVALENCE:RELATION:AC`