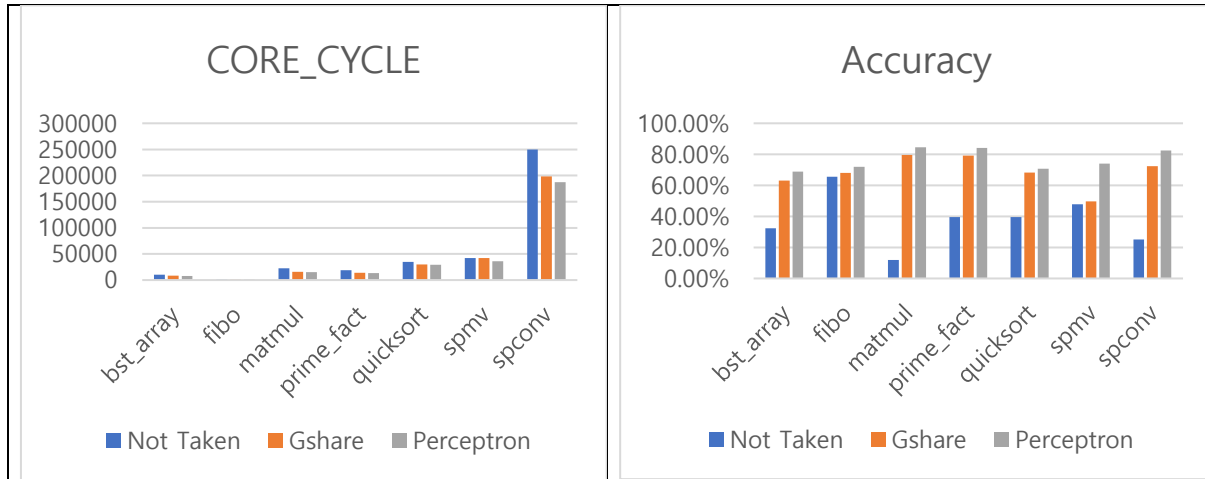


Lab3 Report

2019-15516 한승윤



NOT TAKEN	BST_ARRAY	FIBO	MATMUL	PRIME_FACT	QUICKSORT	SPMV	SPCONV
NUM_COND_BRANCHES	1942	200	3272	4207	5488	8302	36569
BP_CORRECT	627	131	388	1664	2167	3967	9223
ACCURACY	32.29%	65.50%	11.86%	39.55%	39.49%	47.78%	25.22%

GSHARE	BST_ARRAY	FIBO	MATMUL	PRIME_FACT	QUICKSORT	SPMV	SPCONV
NUM_COND_BRANCHES	1942	200	3272	4207	5488	8302	36569
BP_CORRECT	1225	136	2602	3330	3746	4129	26429
ACCURACY	63.08%	68.00%	79.52%	79.15%	68.26%	49.74%	72.27%

PERCEPTRON	BST_ARRAY	FIBO	MATMUL	PRIME_FACT	QUICKSORT	SPMV	SPCONV
NUM_COND_BRANCHES	1942	200	3272	4207	5488	8302	36569
BP_CORRECT	1336	144	2768	3542	3879	6145	30143
ACCURACY	68.80%	72.00%	84.60%	84.19%	70.68%	74.02%	82.43%

PERFORMANCE	BST_ARRAY	FIBO	MATMUL	PRIME_FACT	QUICKSORT	SPMV	SPCONV
GSHARE	1.22	1.02	1.42	1.36	1.16	1.01	1.26
PERCEPTRON	1.27	1.05	1.47	1.43	1.17	1.18	1.34

README.md에 적힌 대로 Gshare와 Perceptron branch prediction을 제작하였다. Not Taken, Gshare, Perceptron 순서로 Performance와 BP accuracy가 상승함을 확인하였다.