

Computer Architecture – Homework 11

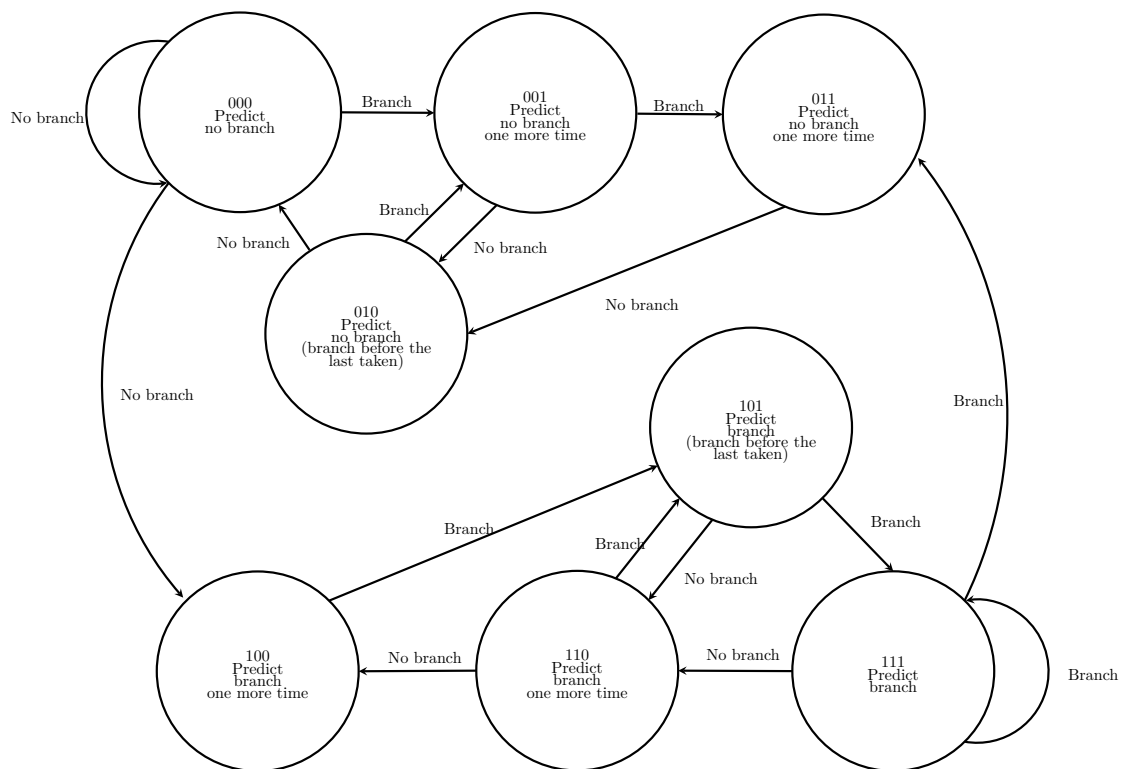
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1 Exercise 1

Please find our solution in the finite state diagram below.



2 Exercise 2

Since the number of conditional branches is 5 and the probability of each prediction being right is 95%, the probability of the prefetching being in the right track is:

$$95\% \times 95\% \times 95\% \times 95\% \times 95\% \approx 77.4\%.$$

3 Exercise 3

Please find our solution in the file `hw11_ex3.ods`.