Compared with Theorem 3 in [1] and Theorem 1 of this paper, the result of Remark 4 and Theorem 2 is much less satisfactory. It would be desirable to narrow the bounds, if not find an equality – which, however, seems difficult. It appears to us that while the lower bound is rather close to the actual value of dim $\mathcal{T}_l^{(k)}$ there is much space for improvement with the upper bound.

One remark more. It may be noted that we mention dim ${}^{b}\mathcal{T}_l^{(2)}$ or dim ${}^{\#}\mathcal{T}_l^{(2)}$ nowhere. Trivially, there is an inequality following from Remark 3 and from Theorem 3 of [1], namely $l + 2 \leqq \dim {}^{b}\mathcal{T}_l^{(2)} \leqq \dim {}^{\#}\mathcal{T}_l^{(2)} \leqq l + 3$. We have, however, a conjecture, which we were not able to prove and only succeeded in verifying for $l = 2, 3, 4$:

Conjecture. $\dim {}^{\#}\mathcal{T}_l^{(2)} = l + 2$.

Added in proof. Meanwhile, L. NEBESKÝ in a paper to appear has proved the Conjecture. Also, F. OLLÉ in his M. Sc. thesis has substantially improved Remark 4, proving $\dim \mathcal{T}_l^{(k)} \leqq \frac{1}{2}(kl + 2l + k - 2)$.

References

[1] *Havel, I., Liebl, P.:* O vnoření dichotomického stromu do krychle (Czech, English summary), Čas. pěst. mat., *97* (1972), 201–205.

[2] *Havel, I., Morávek, J.:* B-valuations of graphs, Czech. Math. Journ., *22* (1972), 338–351.

[3] *Berge, C.:* Théorie des graphes et ses applications, Dunod, Paris 1958.

[4] *Hlavička, J.:* Race-free assignment in asynchronous switching circuits, Information Processing Machines No. 13, 1967.

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