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**COMP9101 Ass04**

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**Q3.**

This question is similar as Q1, we can build a graph, the vertex is each square. The super source is connected to square 0, which is the first square, the super sink in this graph is the last square, which is square n. The capacity of each vertex is A[i], then we can divide each vertex into two vertexes. Therefore, by running the max-flow algorithm, we can calculate the number of kids who can reach the last square. The time complexity of this question is also O((2n+2) ^3) = O(n^3)