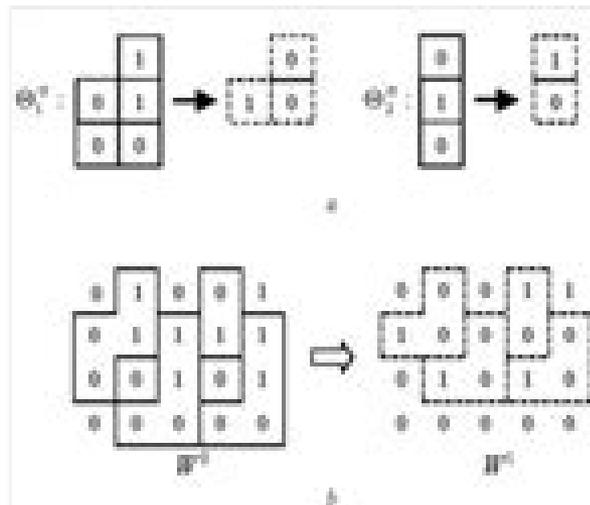# A sample of Parallel Substitution Algorithm (PSA)

PSA $\Phi\sigma$ of addition of many positive binary values.

W – is a 2D rectangular table with cells enumerated by pairs of numbers in accordance with left coordinate system (i – abscissa, j – ordinate), $m = \langle i, j \rangle$. The digits of binary values stored in rows of the table. The bottom row must contain only zeros. The least significant digits are in the rightmost column. PSA $\Phi\sigma$ contains two parallel substitutions:

$$\Phi_\sigma = \begin{cases} \Theta_1^\sigma : \left\{ (1,\langle i, j\rangle)(1,\langle i, j+1\rangle)(0,\langle i+1, j\rangle) \right\} * \left\{ (0,\langle i, j-1\rangle)(0,\langle i+1, j-1\rangle) \right\} \to \\ \qquad \left\{ (0,\langle i, j\rangle)(0,\langle i, j+1\rangle)(1,\langle i+1, j\rangle) \right\}; \\ \Theta_2^\sigma : \left\{ (1,\langle i, j\rangle)(0,\langle i, j+1\rangle) \right\} * \left\{ (0,\langle i, j-1\rangle) \right\} \to \left\{ (0,\langle i, j\rangle)(1,\langle i, j+1\rangle) \right\}. \end{cases}$$

Graphical representation of algorithm

Remarks

1. The relative positions of cells in parallel substitution commands are set by computable functions, which are shift functions in this sample (shown in angle brackets) In this case the command has a graphical representation (Fig. a).

2. The part of left side of command after * is a context, that is an unchangeable part of command.

3. One step of execution of *PSA $\Phi\sigma$* to table W is shown at Fig b. The algorithm is executed while at least one substitution is applicable. The result will be obtained in the top row of the table.

[Parallel Substitution Algorithm](#)

Y Pai

Parallel Substitution Algorithm:

The book delves into Parallel Substitution Algorithm. Parallel Substitution Algorithm is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Parallel Substitution Algorithm, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Parallel Substitution Algorithm
   - Chapter 2: Essential Elements of Parallel Substitution Algorithm
   - Chapter 3: Parallel Substitution Algorithm in Everyday Life
   - Chapter 4: Parallel Substitution Algorithm in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Parallel Substitution Algorithm. The first chapter will explore what Parallel Substitution Algorithm is, why Parallel Substitution Algorithm is vital, and how to effectively learn about Parallel Substitution Algorithm.
3. In chapter 2, this book will delve into the foundational concepts of Parallel Substitution Algorithm. The second chapter will elucidate the essential principles that must be understood to grasp Parallel Substitution Algorithm in its entirety.
4. In chapter 3, the author will examine the practical applications of Parallel Substitution Algorithm in daily life. The third chapter will showcase real-world examples of how Parallel Substitution Algorithm can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Parallel Substitution Algorithm in specific contexts. The fourth chapter will explore how Parallel Substitution Algorithm is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Parallel Substitution Algorithm. The final chapter will summarize the key points that have been discussed throughout the book.
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