

## REVISION REPORT

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### <Revisions>

#### L3 in Abstract :

changing the array of ~~the~~ pieces on the printing plates in the offset printing.  
→ changing the array of pieces on the printing plates in the offset printing.

#### L3–4 in Abstract :

It is setting an upper limit of ~~acceptable~~ for each plate, and carrying out complete enumeration.  
→ It is **by** setting an **acceptable** upper limit for each plate, and carrying out complete enumeration.

#### L5 in Abstract :

This method ~~dramatically~~ reduces the operating time of the algorithm.  
→ This method **drastically** reduces the operating time of the algorithm.

#### L7 in P1 :

selected from ~~among~~ different  $n$  elements  
→ selected from different  $n$  elements

#### L16 in P1 :

if we want to obtain three A's and nine B's, ~~then~~ we can choose  
→ if we want to obtain three A's and nine B's, we can choose

#### L21 in P1 :

$[A, B, B, B] \times 3$  also seems to be 'Better'  
→  $[A, B, B, B] \times 3$  also seems to be **a** 'Better'

#### L25–26 in P1 :

Offset printing, also called offset lithography, or litho-offset~~y~~ in commercial printing, widely used printing technique  
→ Offset printing, also called offset lithography, or litho-offset in commercial printing, **is a** widely used printing technique

#### L35 in P2 :

As ~~an other improving~~, how to make the initial plates  
→ As another improvement, how to make the initial plates

#### L36 in P2 :

Above example ~~means that~~ what is the best arrangement  
→ **The** above example **denotes** what is the best arrangement

**L38 in P2 :**

In the past, production was based on ordering of products from companies

→ In the past, production was based on **the** ordering of products from companies

**L39–40 in P2 :**

However, as the internet market has ~~became~~ popular, the production systems have been ~~changed~~ by consumers.

→ However, as the internet market has **become** popular, the production systems have been **altered** by consumers.

**L45 in P2 :**

variable information such as the ~~date of manufacture~~.

→ variable information such as the **manufactured date**.

**L47 in P2 :**

the number of labels ~~loss~~ increased compared to the past.

→ the number of label loss increased compared to the past.

**L57 in P3 :**

~~At first~~, we receive orders → **First**, we receive orders

**L60 in P3 :**

placed on each plate so that many labels are printed at ~~one printing~~.

→ placed on each plate so that many labels are printed at **once**.

**L62 in P3 :**

As the final process, → **For** the final process,

**L64–65 in P3 :**

The constraint ~~conditions~~ and major points

→ The constraints **s** and major points

**L74 in P3 :**

minimized as ~~little as~~ → **as** minimized as

**L84 in P3 :**

the algorithm ~~should~~ be improved. → the algorithm **had to** be improved.

**L101 in P4 :**

goal ~~s~~ is to obtain the following → goal is to obtain the following

**L105 in P4 :**

However, this method ~~has a problem that it~~ takes too much time.

→ However, this method takes too much time.

**L107 in P4 :**

Then, the calculation ~~of the cases~~ takes more than 658 hours,

→ Then, the calculation takes more than 658 hours,

**L108–109 in P4 :**

Given that there are ~~limits of the time~~ from the date of ~~receipt of orders~~ to the delivery date,

→ Given that there are **time constraints** from the date of **order receipts** to the delivery date,

**L119 in P4 :**

$P$  is the products that contain the Plate

→  $P$  is the **set of** products that **contains** the Plate

**L124 in P4 :**

with repetition  $_{num}H_k$  ~~and~~ indicated in

→ with repetition  $_{num}H_k$  **which is** indicated in

**L152 in P7 :**

For the same partition  $\pi$ , ~~the~~ matrix  $A = \begin{pmatrix} 3 & 1 \end{pmatrix}$  can be

→ For the same partition  $\pi$ , matrix  $A = \begin{pmatrix} 3 & 1 \end{pmatrix}$  can be

**L157 in P7 :**

If there are ~~so~~ many products and ~~also~~ large order-quantity,

→ If there are **too** many products and large order-quantities,

**The line above matrix  $A$  which is above L165 in P8 :**

The matrix  $A$  can be found as follow~~s~~.

→ The matrix  $A$  can be found as follow**ed**.

**L170–171 in P9 :**

The total cost was reduced by ~~from~~ minimum -6.85%(sample no. 15) to maximum 27.5%(sample no. 74)

→ The total cost was reduced by **a** minimum **of** -6.85%(sample no. 15) to **a** maximum **of** 27.5%(sample no. 74)

**L172–174 in P9 :**

The paired t-test is one of the two sample t-test, and it is a test that verifies whether the two groups are different. The two populations are as ~~follows~~.

→ The paired t-test is one of the two sample t-test**s**, and it is a test that verifies whether the two groups are different. The two populations are as **such**.

**L179–180 in P9 :**

the two groups have to satisfy ~~the~~ normality and homoscedasticity.

→ the two groups have to satisfy normality and homoscedasticity.

**L181 in P9 :**

which can be satisfied ~~the~~ normality

→ which can satisfy normality

**L205–206 in P10 :**

the efficiency as the follow formula. → the efficiency as the follow**ing** formula.

**L209 in P10 :**

in many ~~number of~~ products. → in many products.

**L212 in P11 :**

for ~~confidentiality of the company~~. → for **company confidentiality reasons**.

**L217–218 in P11 :**

who provided ~~many~~ support and ~~advises~~ for ~~the~~ writing of this paper.

→ who provided **much** support and **advice** for writing of this paper.