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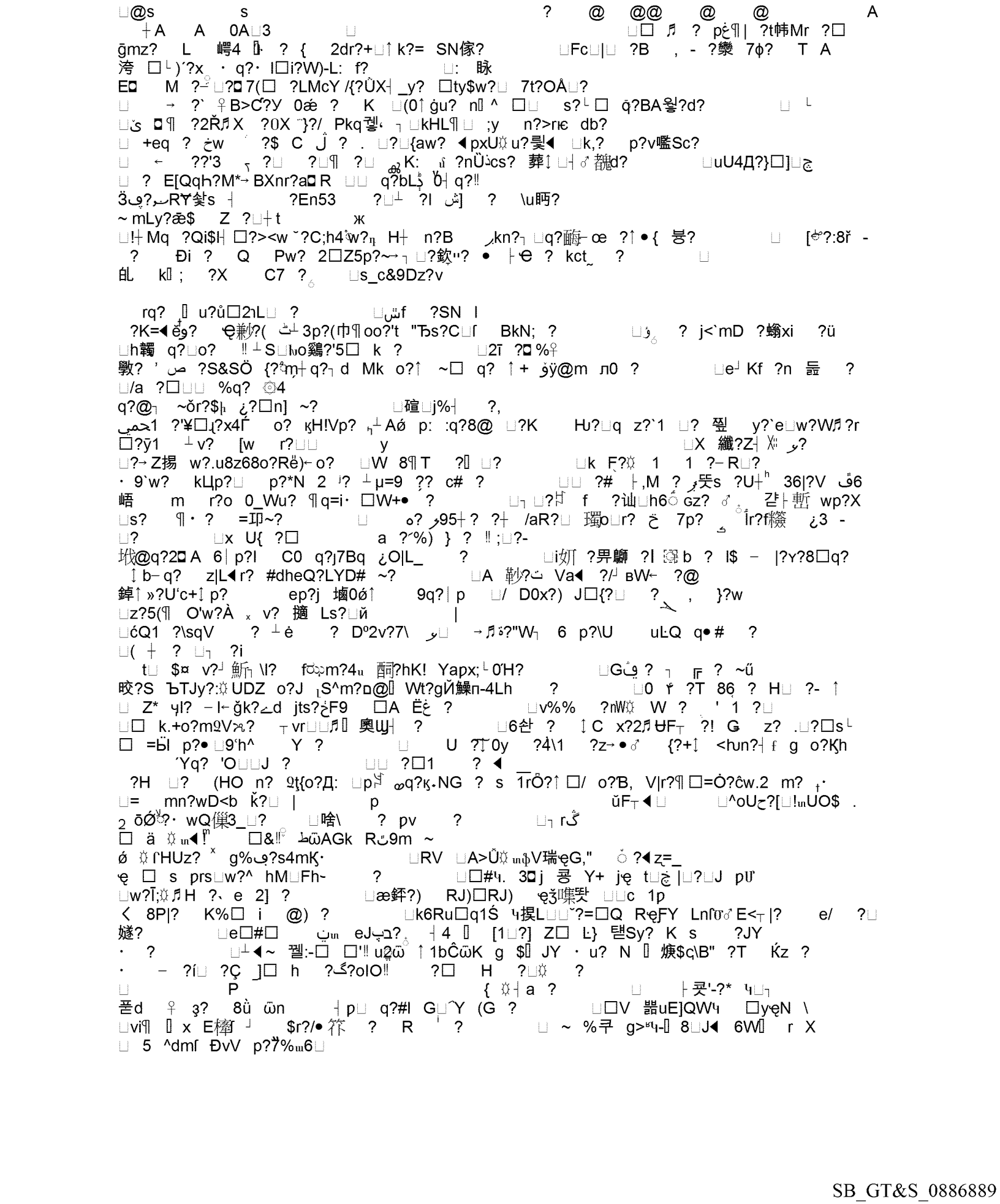

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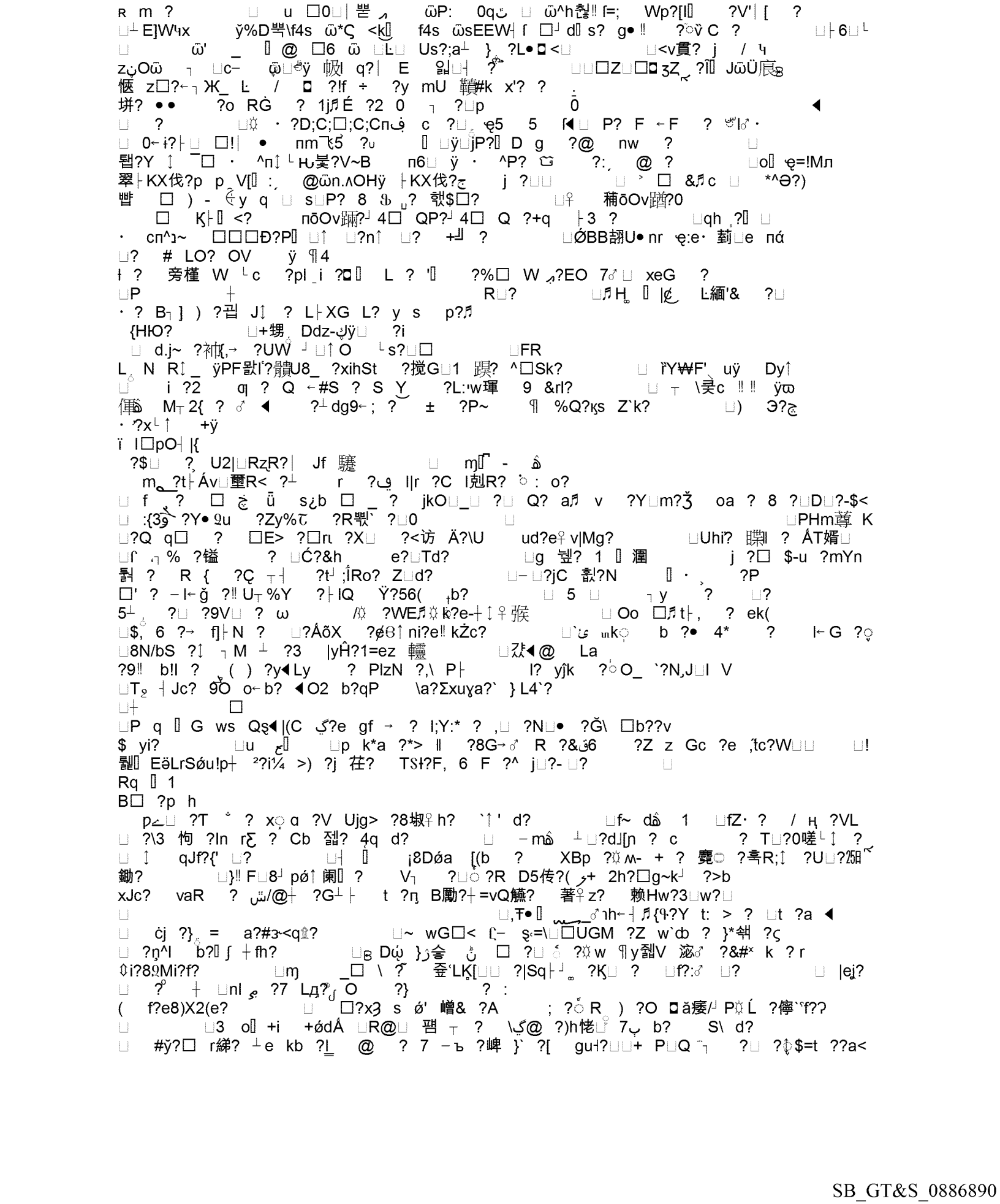

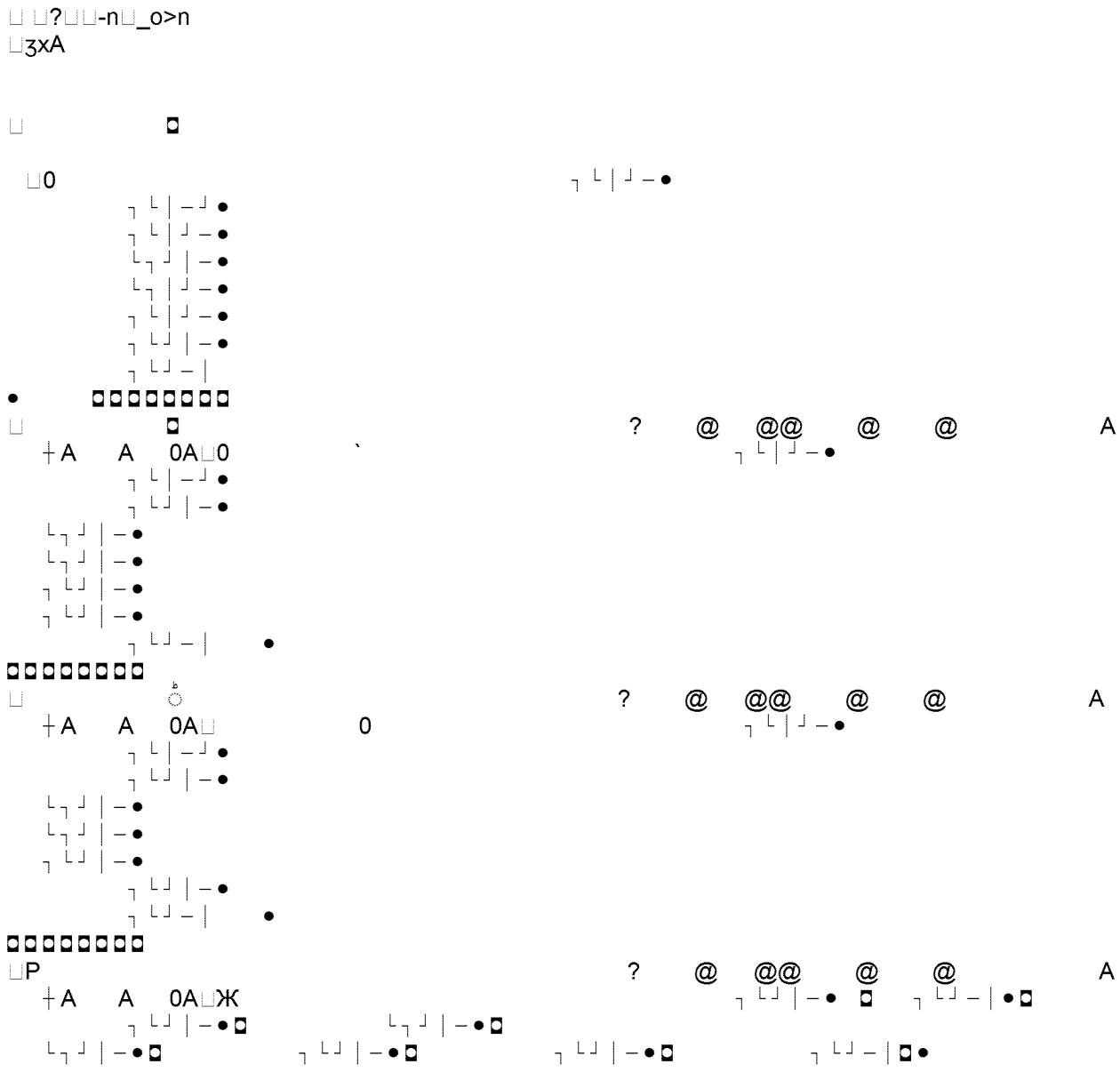

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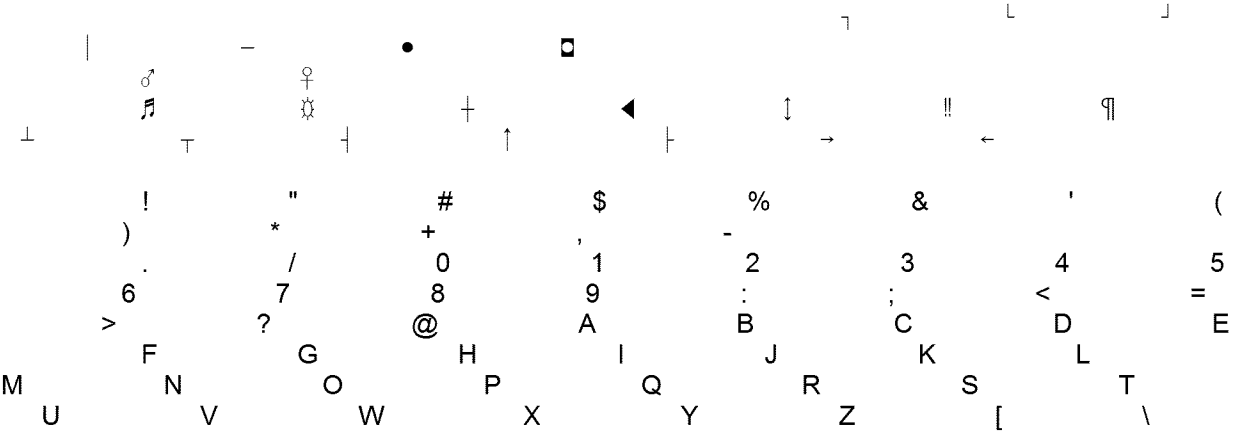

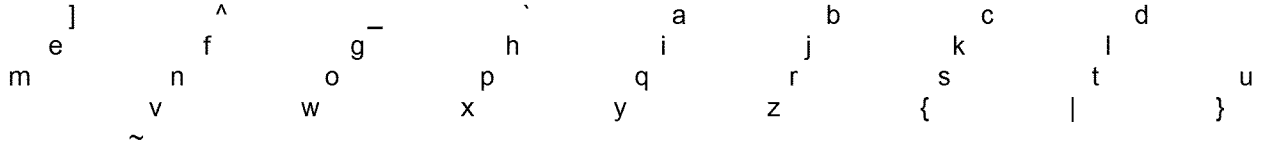

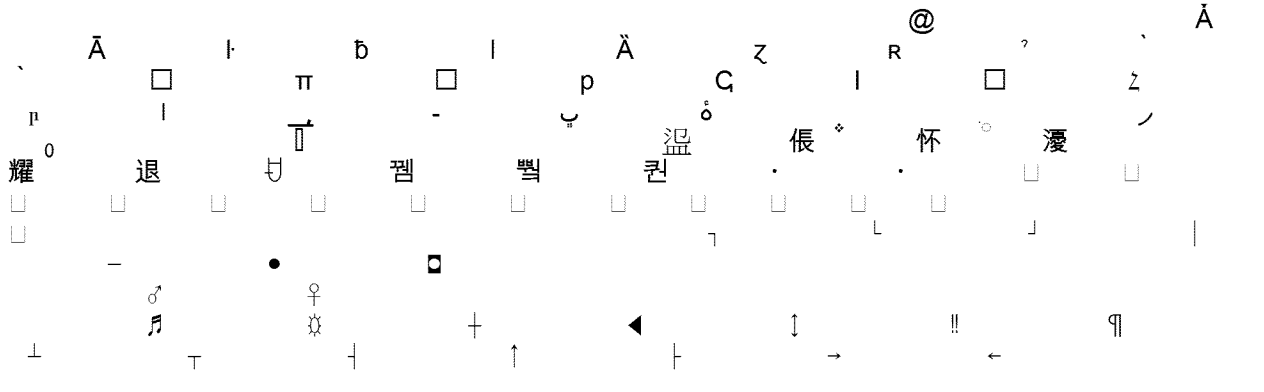

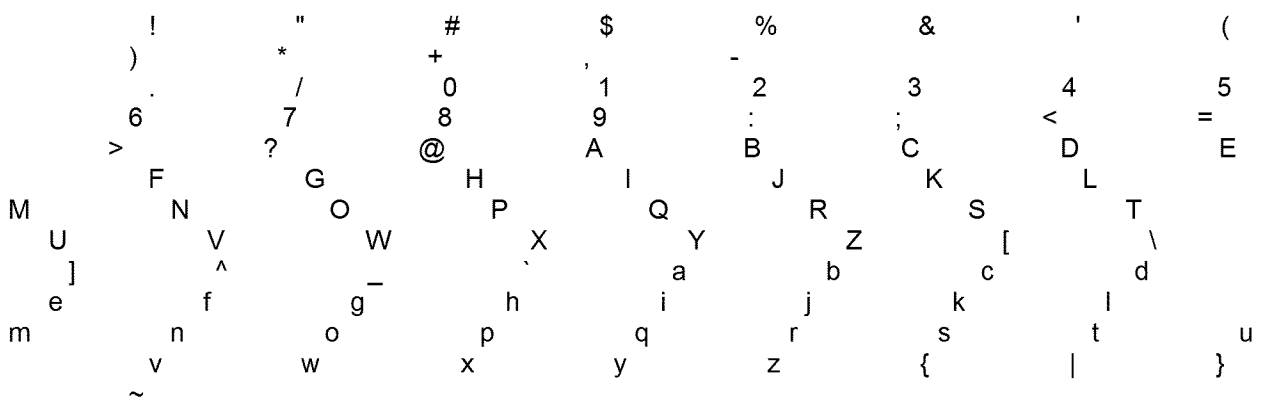

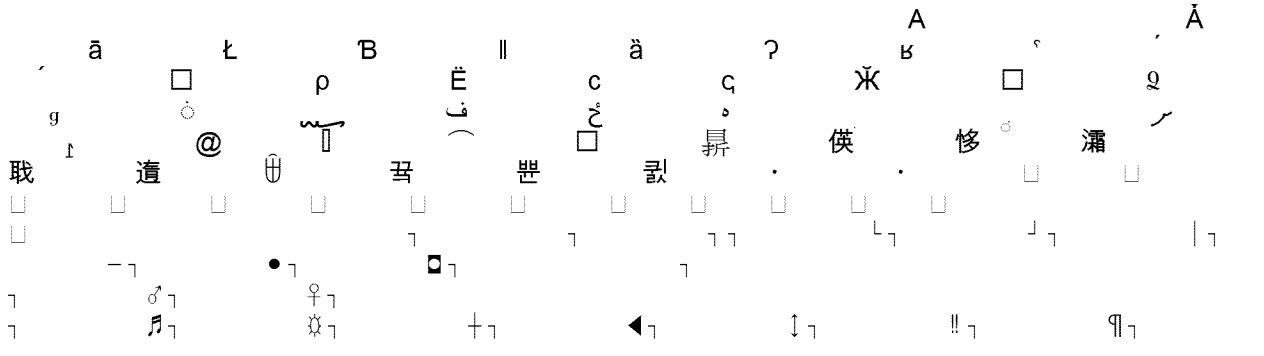

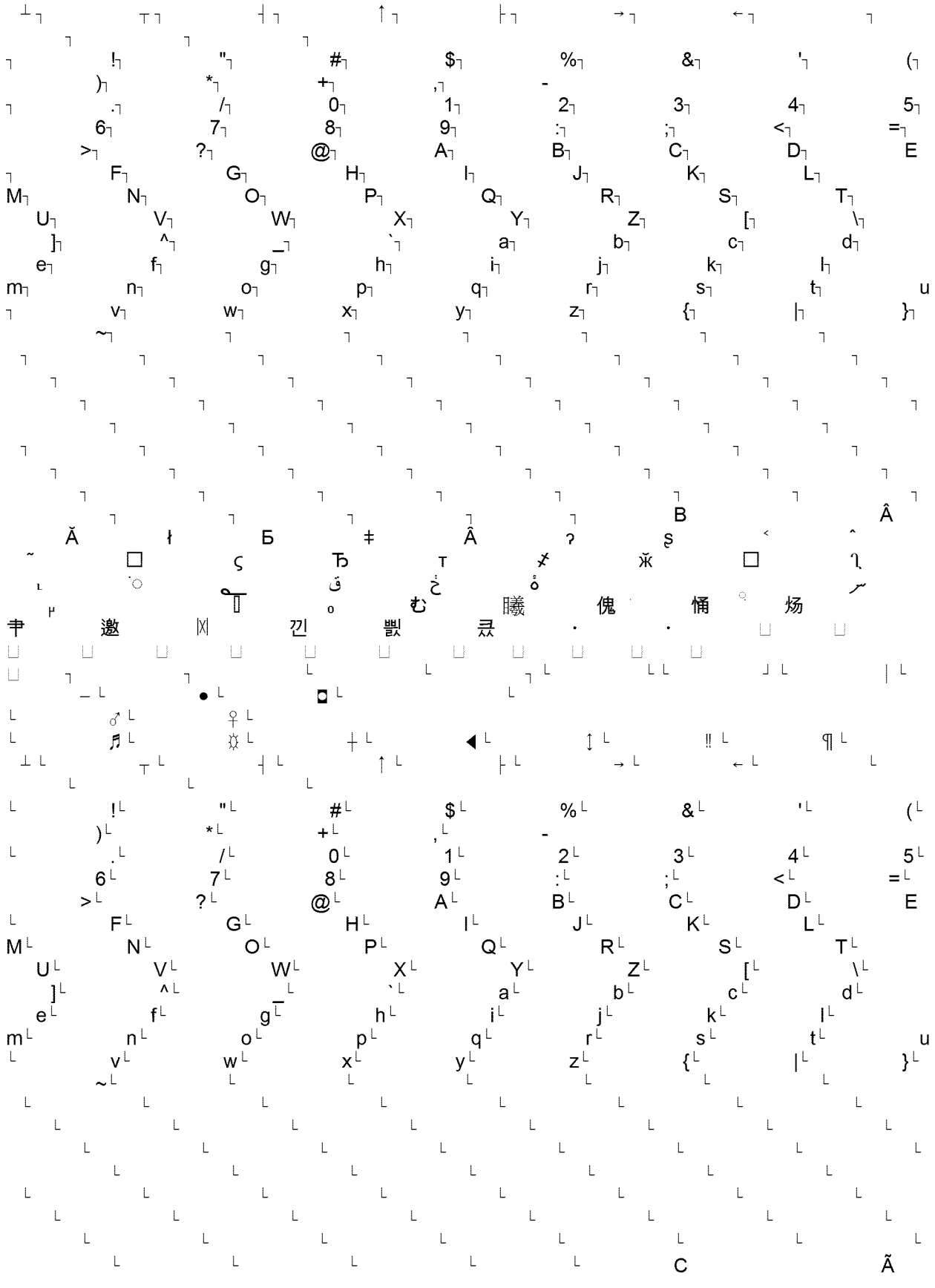

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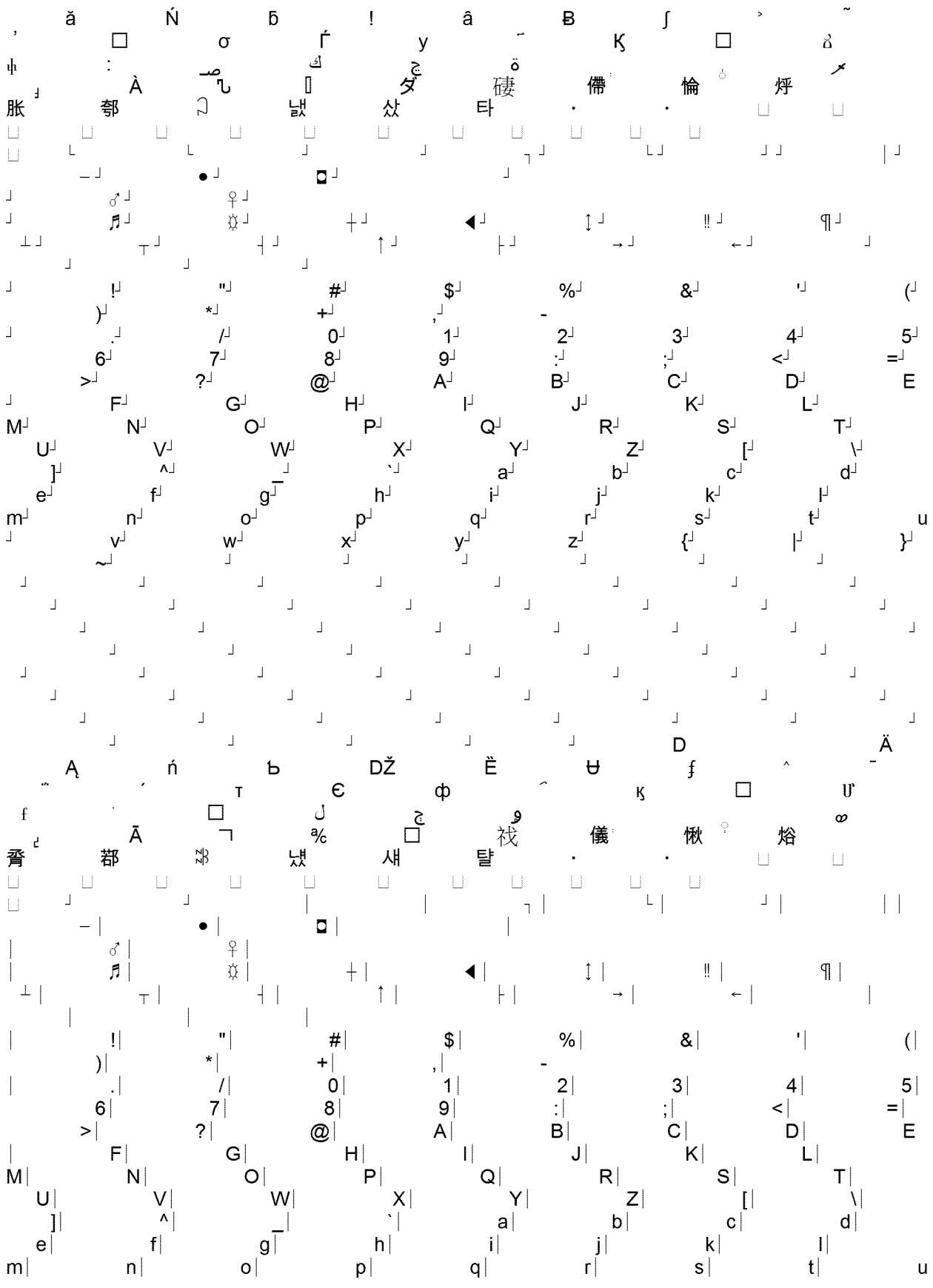

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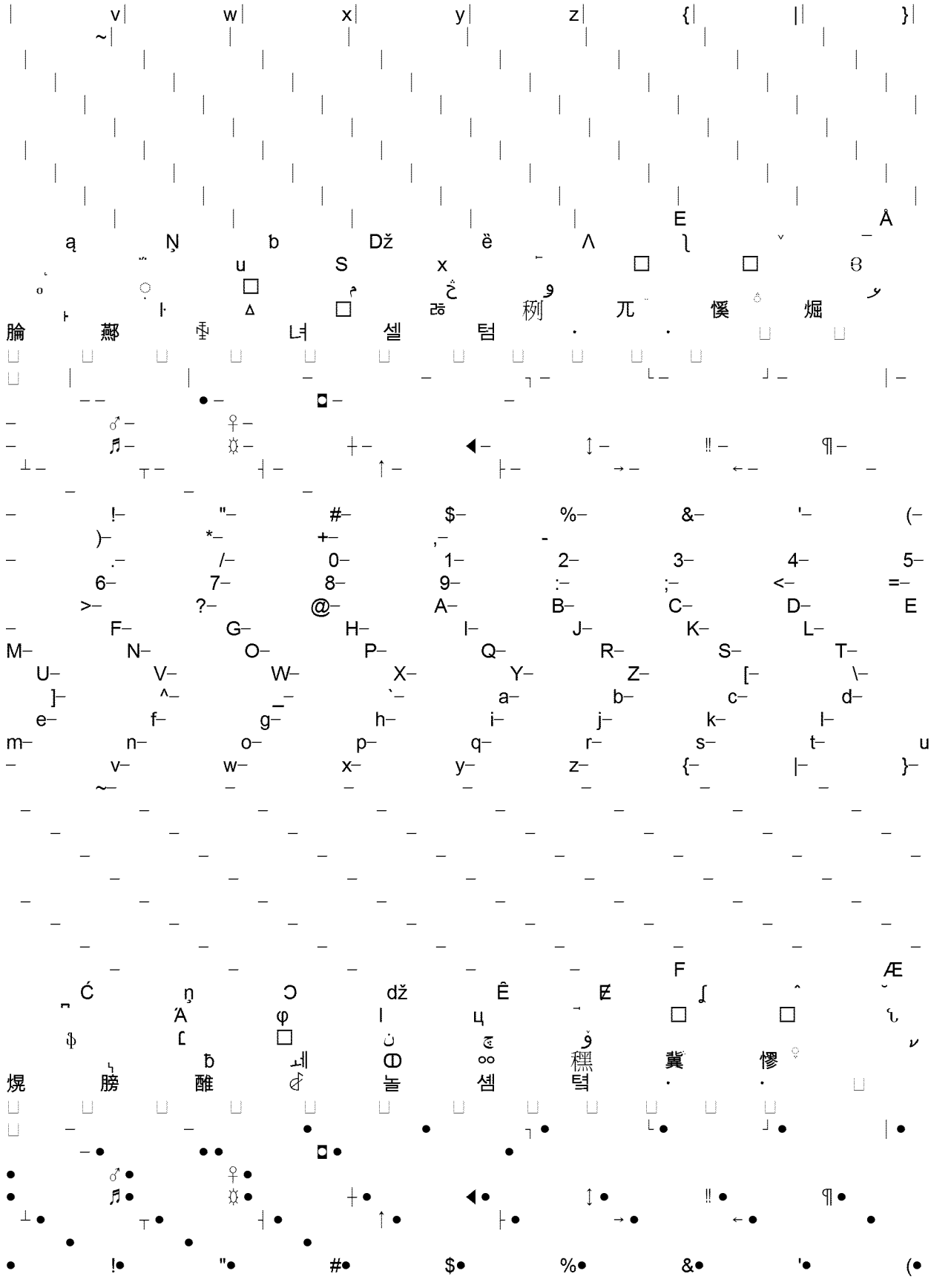

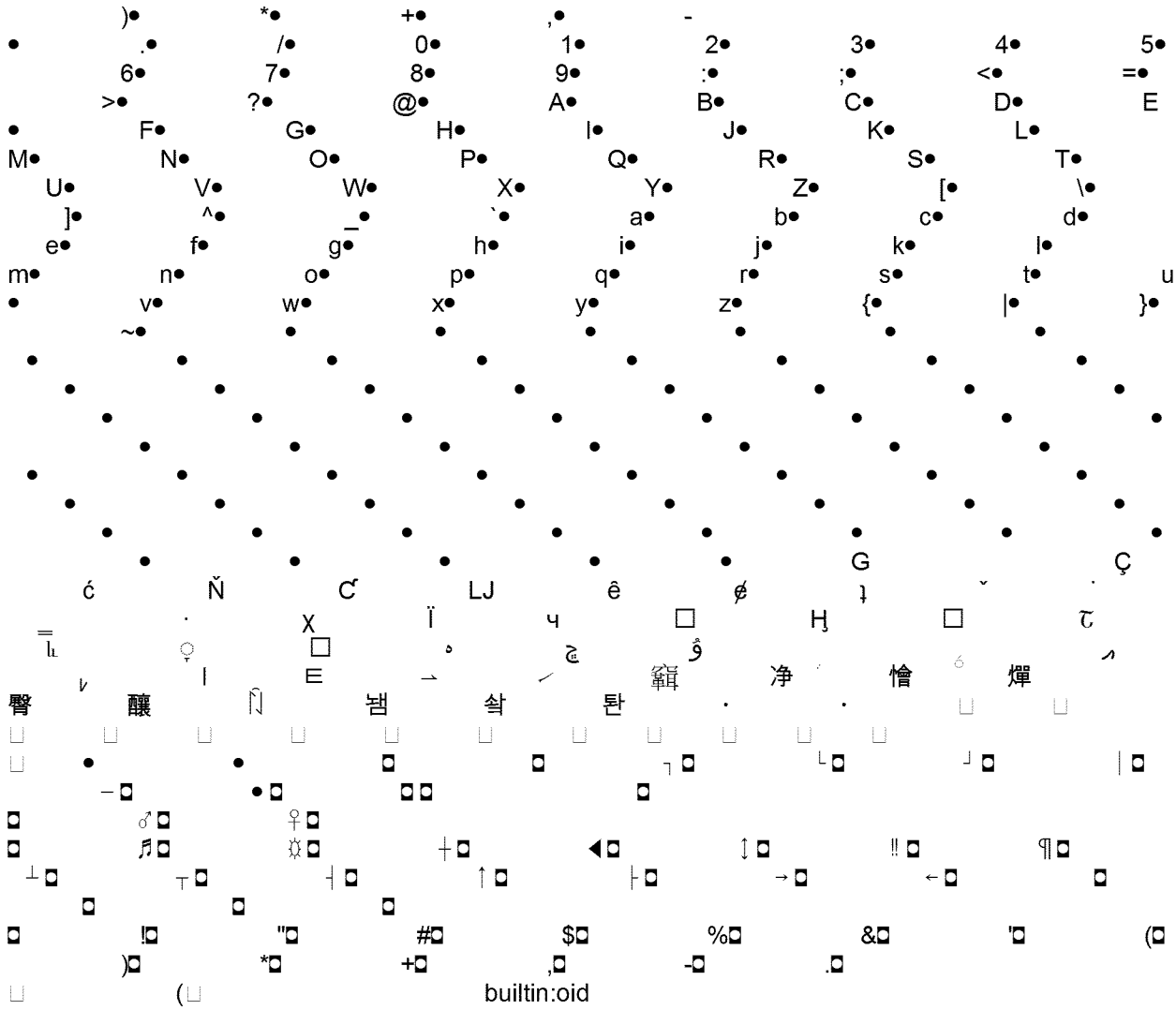

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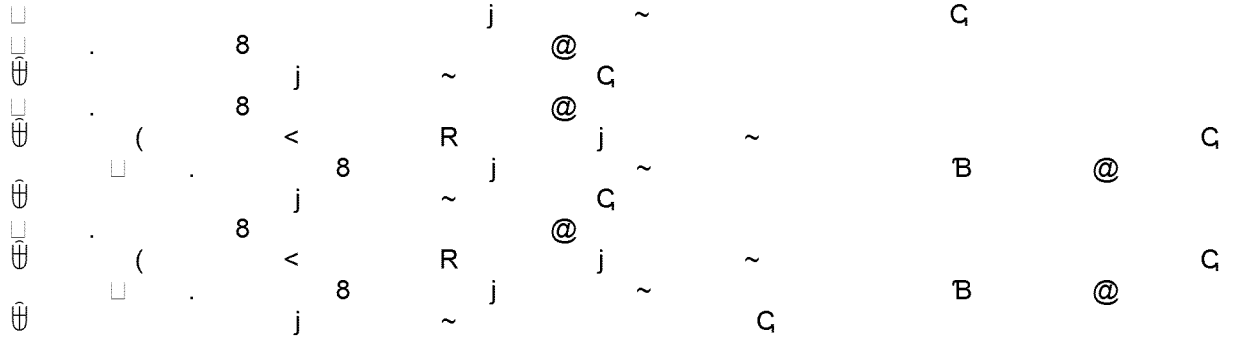

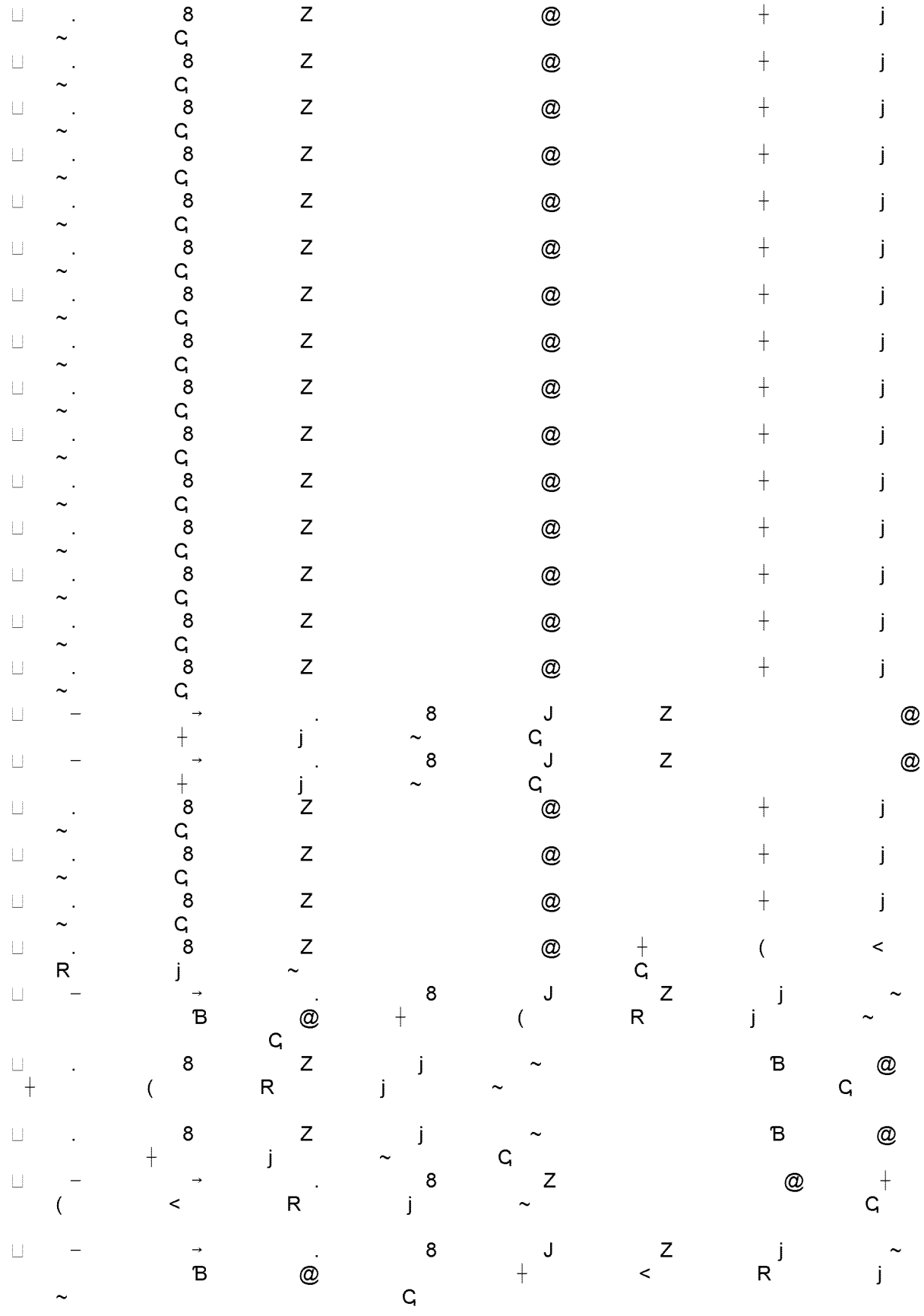

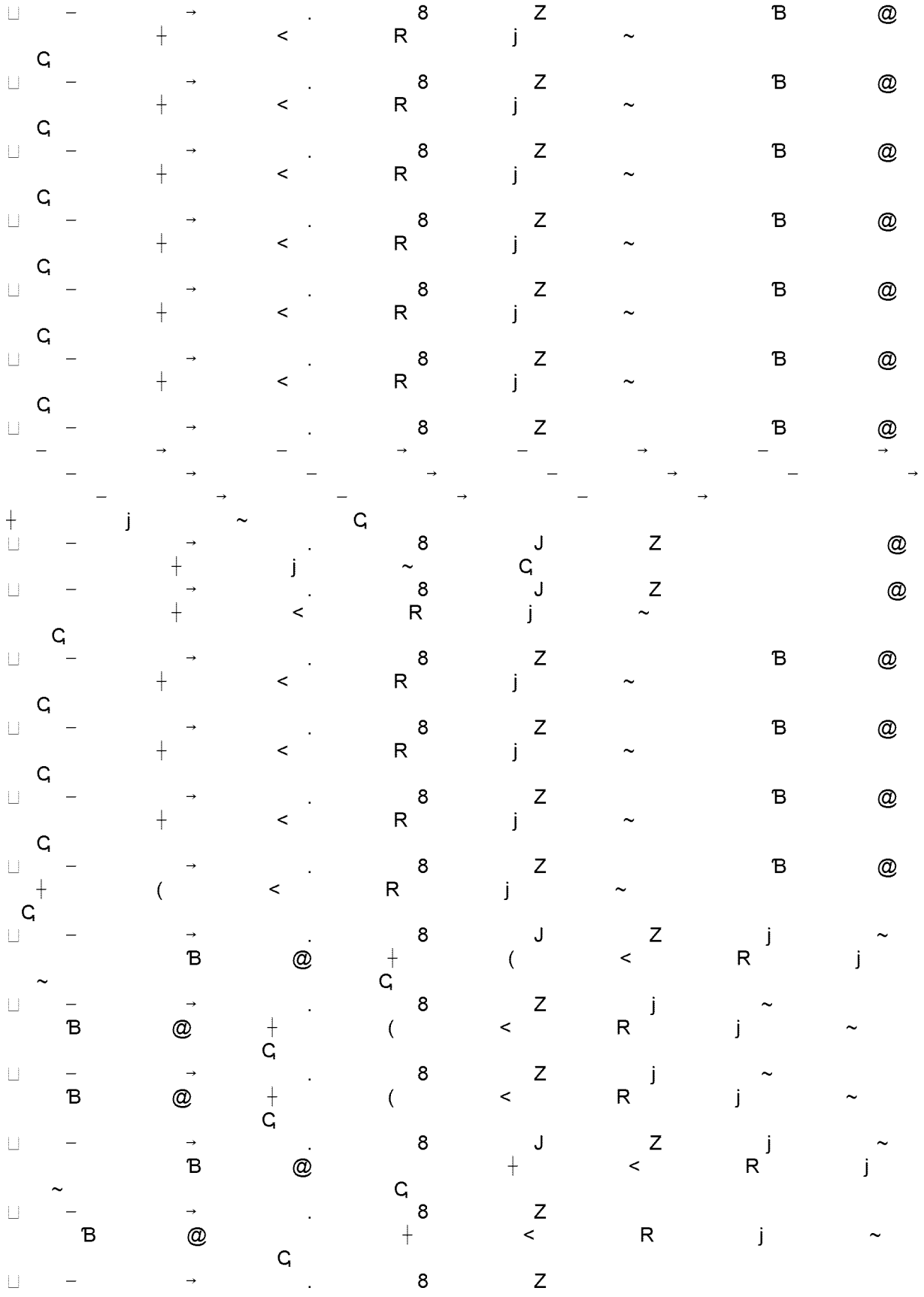

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– → . 8 J Z @
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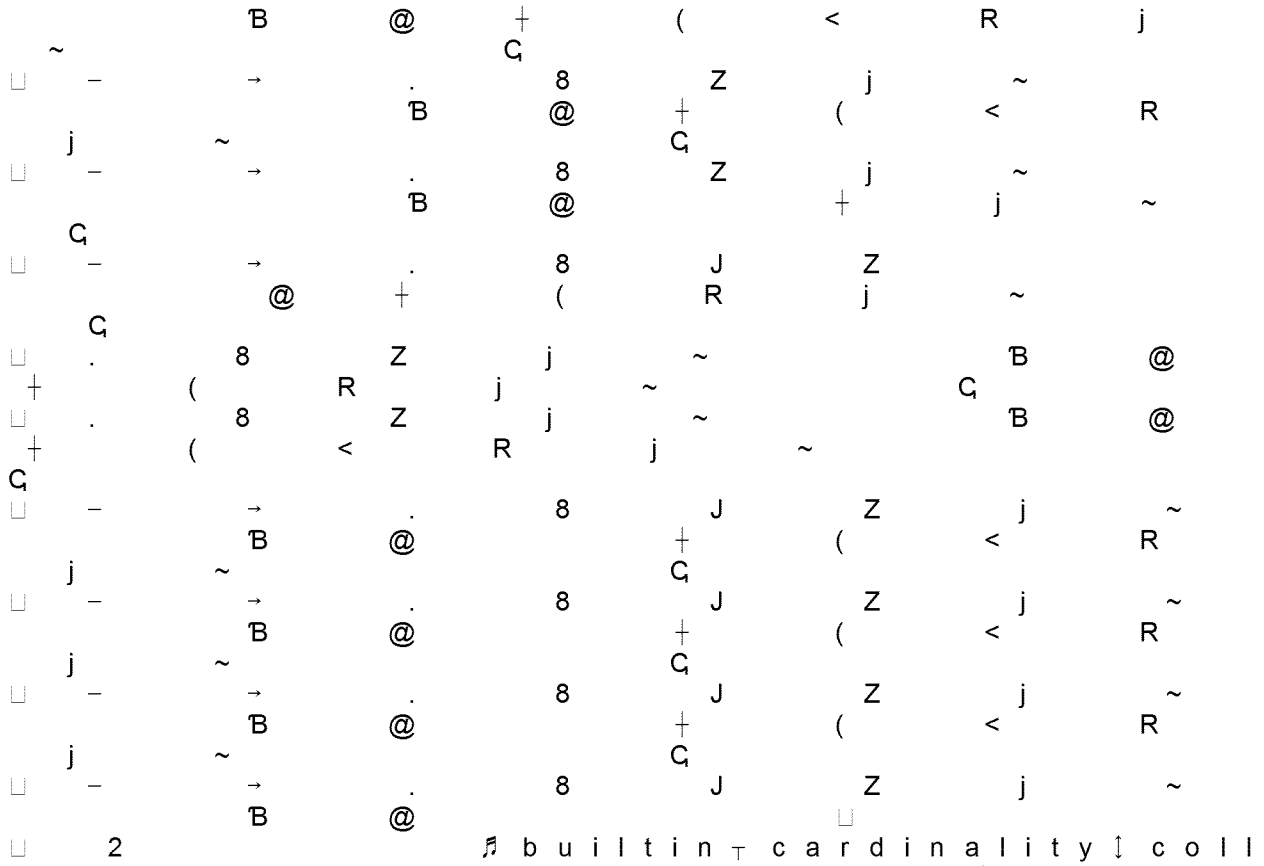
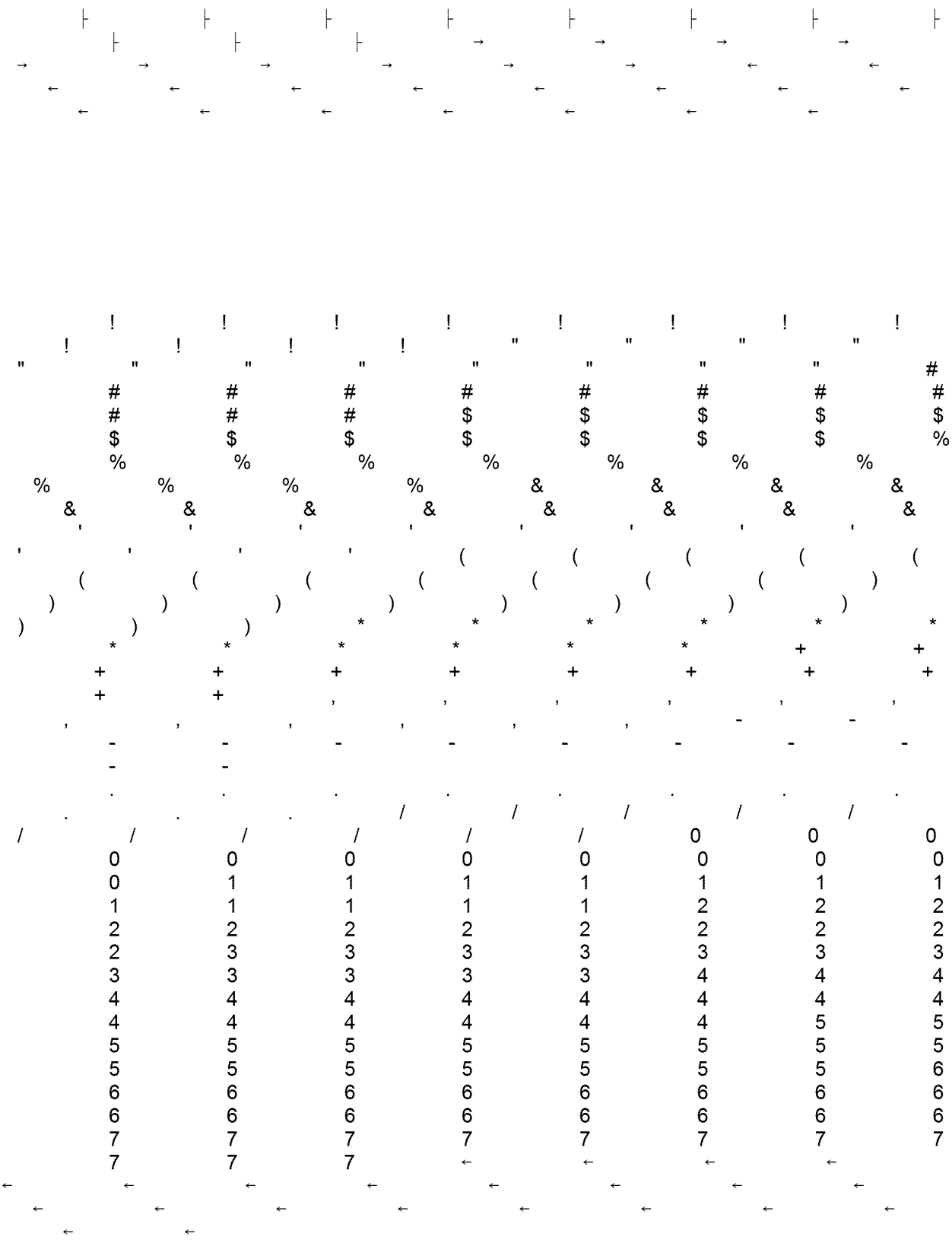
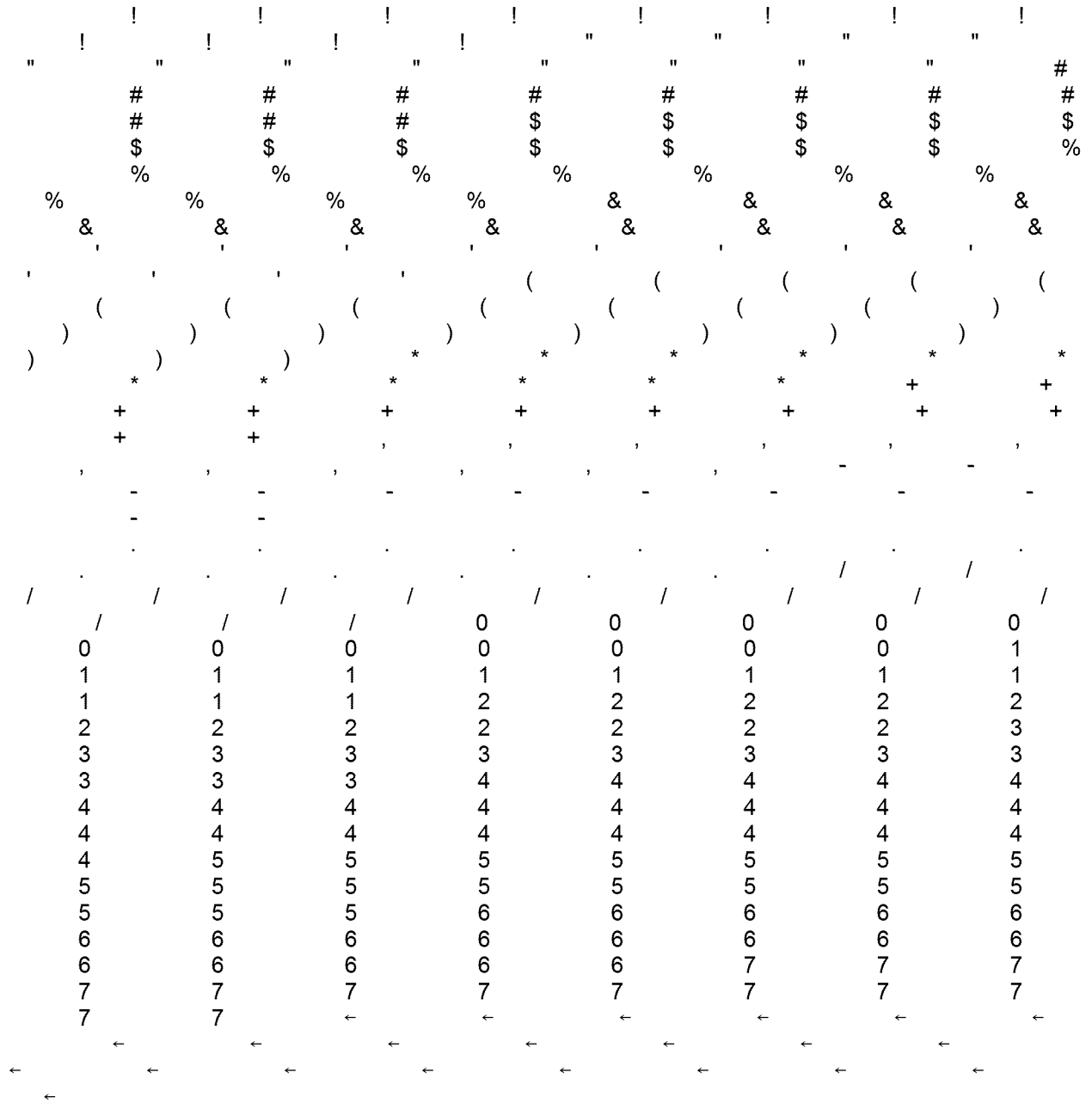
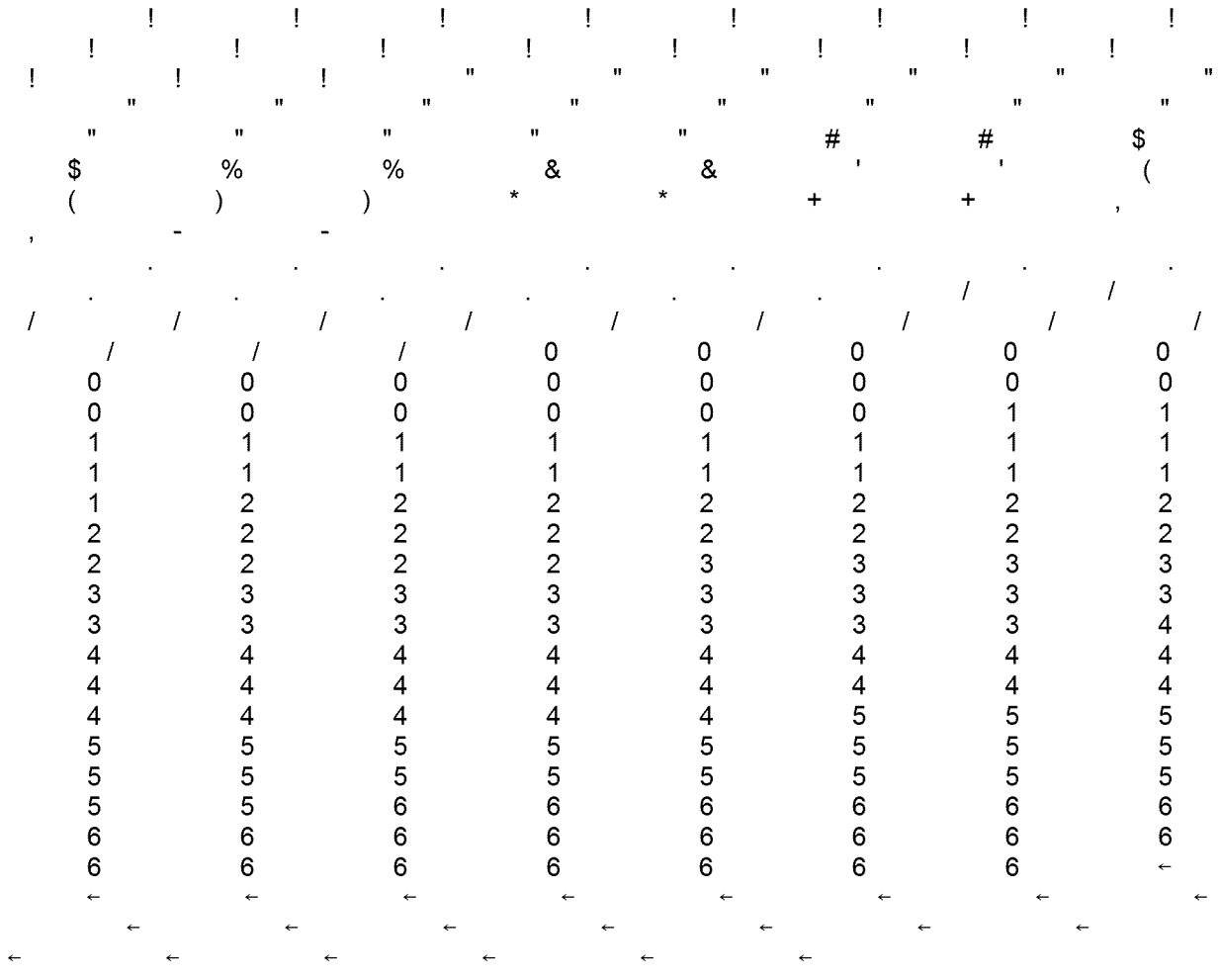
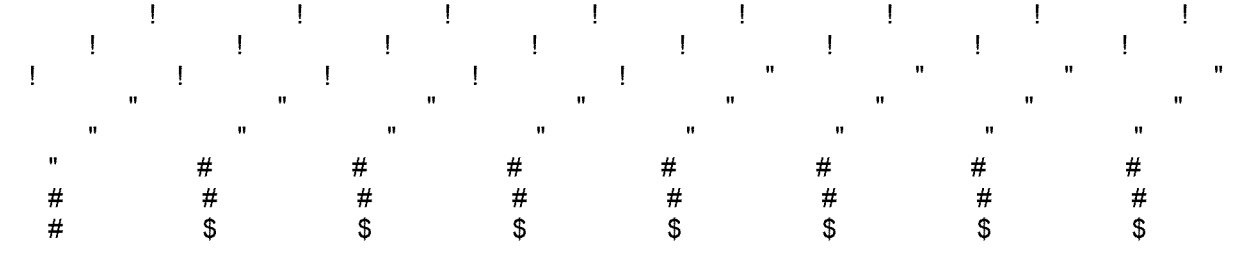


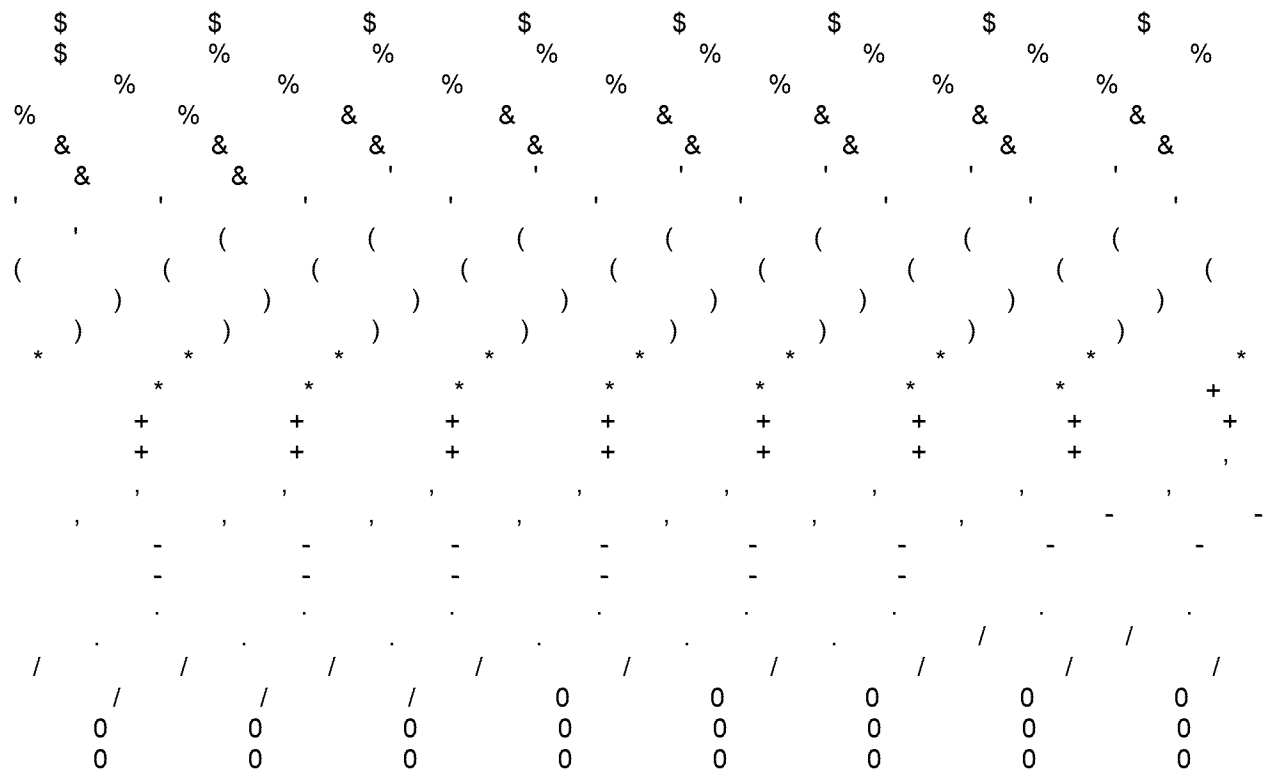
□ 2 ♬ builtin ┬ cardinality ↕ collation ¶ comparable ┬ compression ↕ data-file ┼ datatype → default-value ↕ dict-file ┼ distinct ♬ factory ┬ family-name fixed ↕ max-value ↕ min-value ◘ name ┼ not-null ♬ ordered ♬ ordinal ↕ precision scale ◘ size → sort-position ¶ sort-sense ↑ storagewidth ◘ type ↕ type-file ♀ unique □2 ~ collation:binary
comparable:comparable
compression:heap
data-file:COLUMNPROPS_KEY.data
datatype:usr
dict-file:COLUMNPROPS_KEY.dict
distinct:distinct
factory:varchar
fixed:faise
name:COLUMNPROPS_KEY
not-null:not-null
precision:127
scale:2
size:508
storagewidth:8
type:varchar(127,2) collate binary
type-file:COLUMNPROPS_KEY.type
□
□ 86











SB_GT&S_0886909

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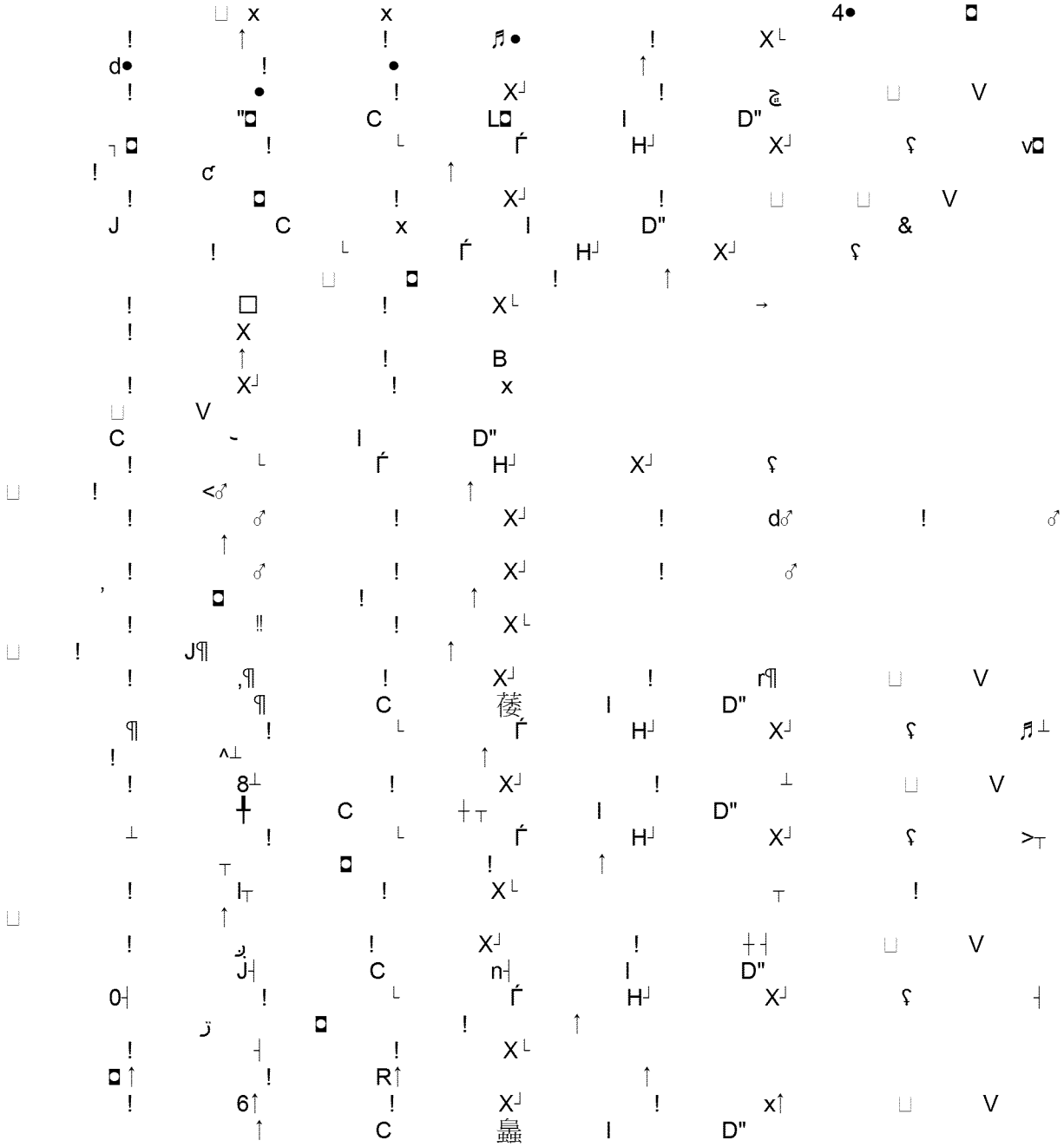

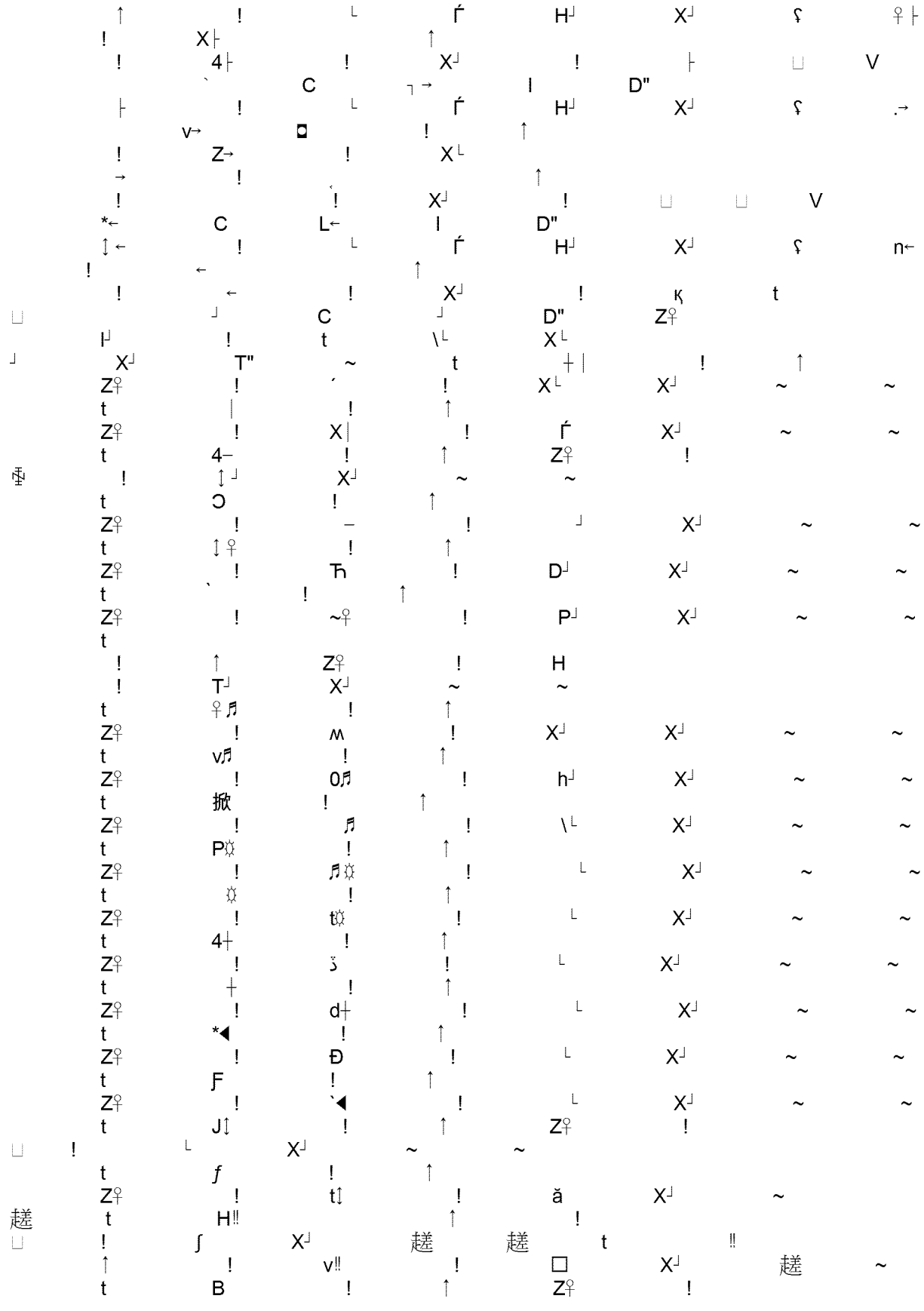

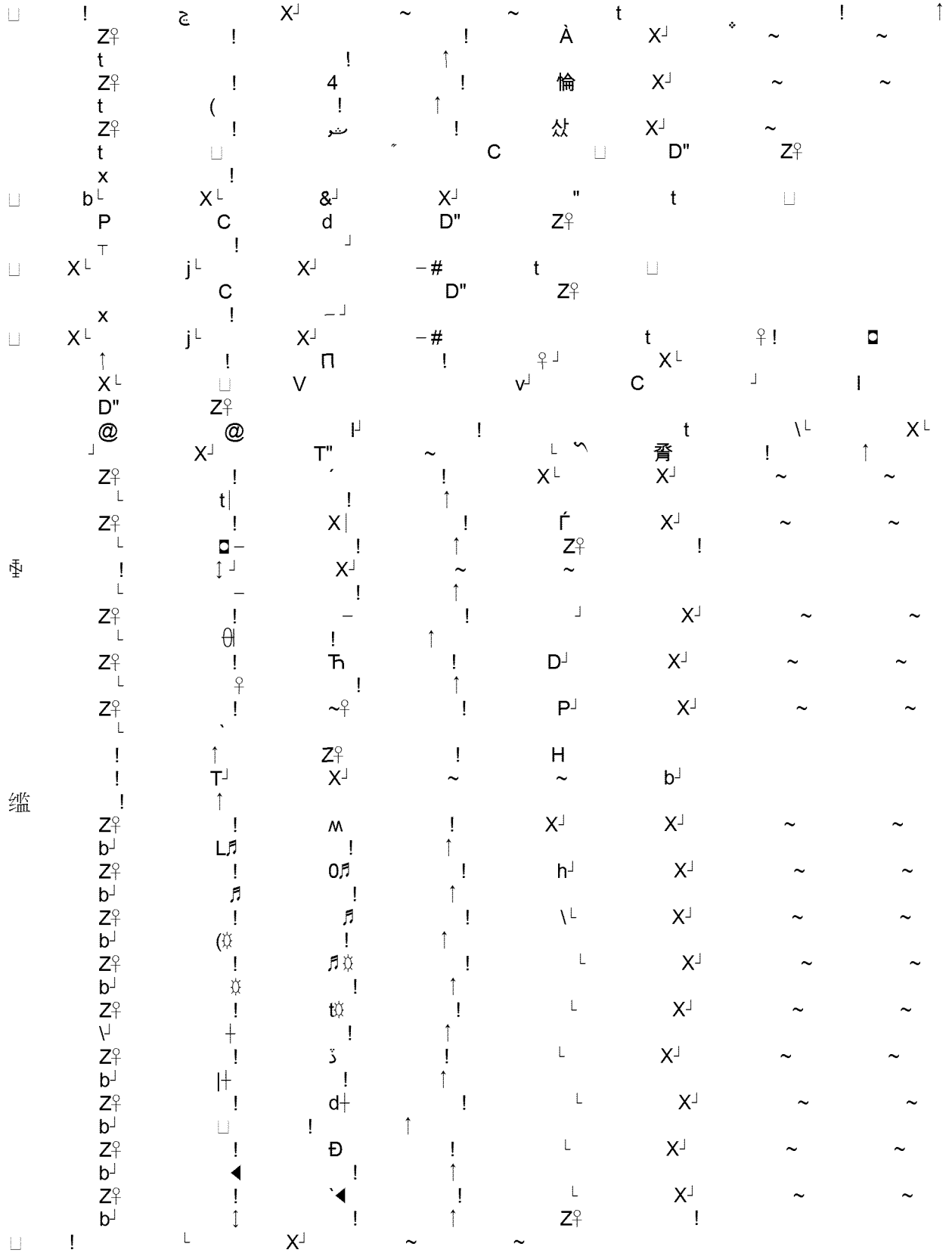

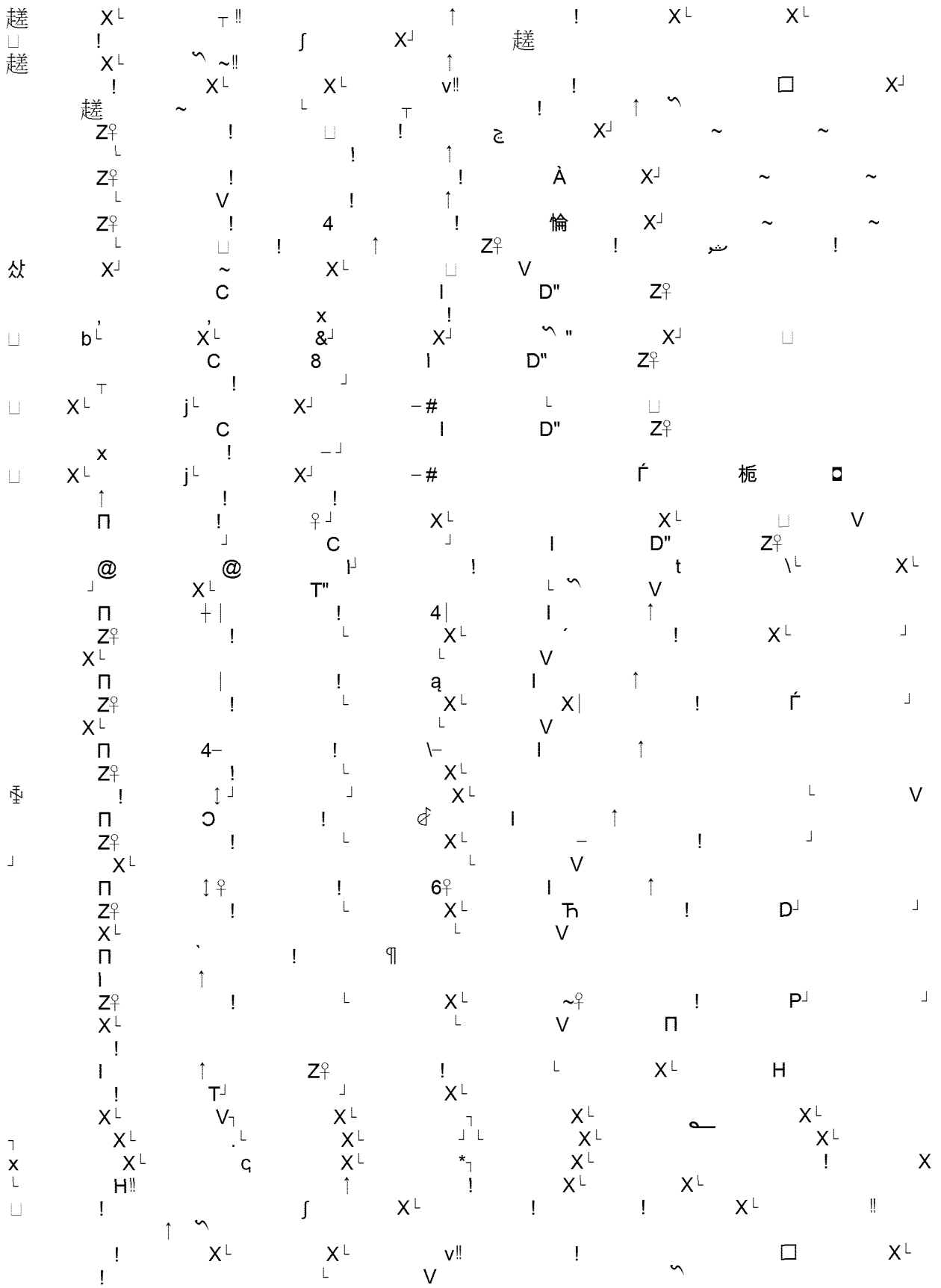

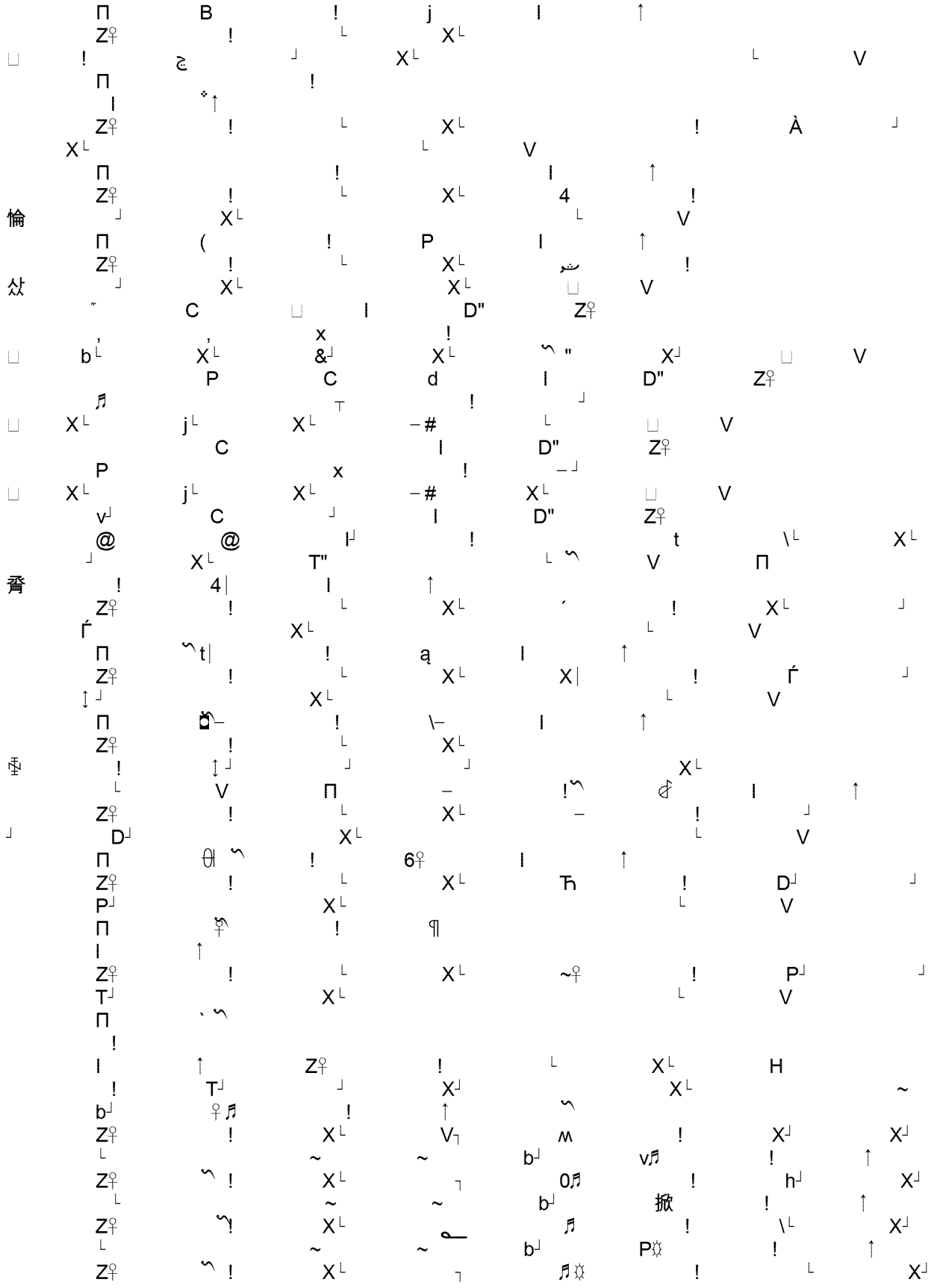

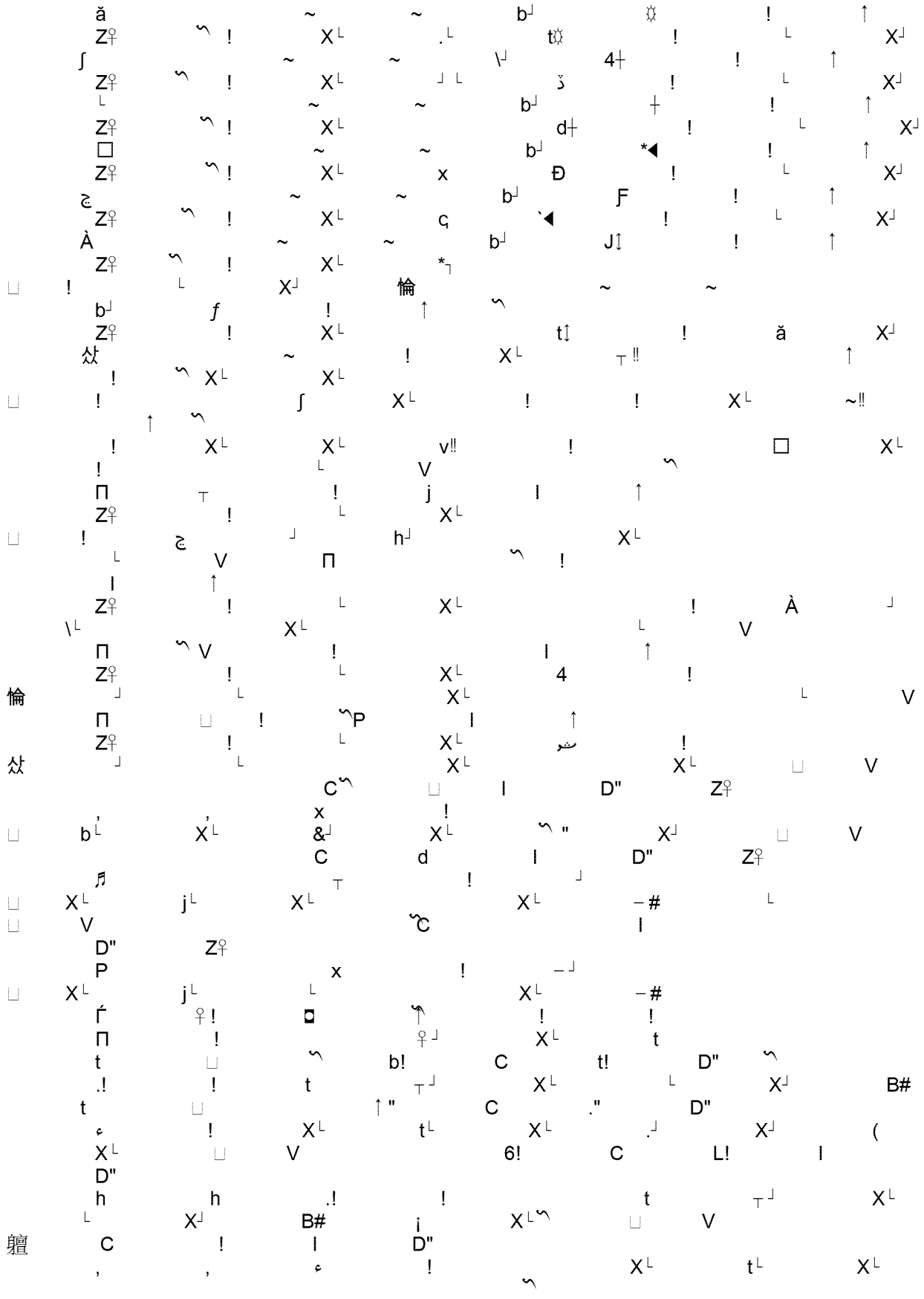

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8 \ ' ? > \ n \ n < d a t a s o u r c e f o r m a t t e d -
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i n l i n e = \ ' t r u e \ '
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' t d s ' ┐ 0 * 0 . 0 0 0 8 7 5 3 8 7 0 3 5 3 7 3 6 1 8 9 , 0 . 0 0 0 9 5
5 1 0 9 8 3 7 6 3 1 3 2 7 5 7 * 0 . 0 0 1 9 7 8 0 6 2 3 2 9 6 5 9 8 4 3
7 * 0 . 0 0 2 1 5 1 7 2 9 9 8 6 2 1 9 9 8 4 4 * 0 . 0 0 2 2 0 3 3 9 9 5
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1 6 * 0 . 0 0 3 7 9 7 1 3 2 1 6 3 8 7 9 1 4 8 9 ( 0 . 0 0 3 9 8 9 8 4 4 0
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1 0 0 ◘ 1 0 2 0 ¶ 1 0 7 3 7 4 1 8 2 3 ┘ 1 1 ┘ 1 2 - 1 2 7 - 1 2 8 ┘ 1
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2 4 ┘ 2 5 - 2 5 5 ┘ 2 6 ┘ 2 7 ┘ 2 8 ┐ 3 ┘ 3 2 ┐ 4 ┘ 4 0 - 4 0 0 ¶ 4
2 9 4 9 6 7 2 9 2 ┐ 5 - 5 0 8 ┐ 6 ┐ 7 ┐ 8 ┘ 8 0 ┘ 8 1 ┐ 9 ◘ A R E A
┬ A R E A . 1 . d a t a ┬ A R E A . 1 . d i c t ↕ A R E A . d a t a ↕ A
R E A . d i c t ↑ A V G _ K W H _ R A N K & A V G _ K W H _ R A N
K . 1 . d a t a " A V G _ K W H _ R A N K . d a t a " A V G _ K W H _
R A N K . d i c t → A V G _ M B T U _ R A N K ( A V G _ M B T U _ R
A N K . 1 . d a t a $ A V G _ M B T U _ R A N K . d a t a $ A V G _ M
B T U _ R A N K . d i c t A V G _ M T C O 2 _ R A N K * A V G _ M
T C O 2 _ R A N K . 1 . d a t a & A V G _ M T C O 2 _ R A N K . d a
t a & A V G _ M T C O 2 _ R A N K . d i c t ↑ A V G _ T H M _ R A N
K & A V G _ T H M _ R A N K . 1 . d a t a " A V G _ T H M _ R A N K
. d a t a " A V G _ T H M _ R A N K . d i c t $ C O L U M N P R O P
S _ A C T I V E . C O L U M N P R O P S _ A C T I V E . d a t a . C O
L U M N P R O P S _ A C T I V E . t y p e C O L U M N P R O P S
_ I D & C O L U M N P R O P S _ I D . d a t a & C O L U M N P R O P
S _ I D . t y p e C O L U M N P R O P S _ K E Y ( C O L U M N P
R O P S _ K E Y . d a t a ( C O L U M N P R O P S _ K E Y . d i c t (
C O L U M N P R O P S _ K E Y . t y p e $ C O L U M N P R O P S _
P A R E N T . C O L U M N P R O P S _ P A R E N T . d a t a . C O L
U M N P R O P S _ P A R E N T . t y p e " C O L U M N P R O P S _
V A L U E , C O L U M N P R O P S _ V A L U E . d a t a , C O L U M
N P R O P S _ V A L U E . d i c t , C O L U M N P R O P S _ V A L U
E . t y p e C O L U M N S _ A C T I V E & C O L U M N S _ A C T I
V E . d a t a & C O L U M N S _ A C T I V E . t y p e ¶ C O L U M N
S _ I D C O L U M N S _ I D . d a t a C O L U M N S _ I D . t y
p e ↑ C O L U M N S _ N A M E " C O L U M N S _ N A M E . d a t a "
C O L U M N S _ N A M E . d i c t " C O L U M N S _ N A M E . t y p
e C O L U M N S _ P A R E N T & C O L U M N S _ P A R E N T . d
a t a & C O L U M N S _ P A R E N T . t y p e ♬ D U A L _ I D ↑ D U
A L _ I D . d a t a ↑ D U A L _ I D . t y p e ↑ E L E C _ S A _ R A N
K & E L E C _ S A _ R A N K . 1 . d a t a " E L E C _ S A _ R A N K
. d a t a " E L E C _ S A _ R A N K . d i c t " E X T _ N R E S _ Z I P
_ C I T Y ( G A S _ A N D _ E L E C _ S A _ R A N K 6 G A S _ A N
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GAS_SA_RANK.dict↑NORM_AVG_KWH&NORM_AVG_KWH.1.data"NORM_AVG_KWH.data→NORM_AVG_MBTU(NORM_AVG_MBTU.1.data$NORM_AVG_MBTU.data NORM_AVG_MTCO2*NORM_AVG_MTCO2.1.data&NORM_AVG_MTCO2.data↑NORM_AVG_THM&NORM_AVG_THM.1.data"NORM_AVG_THM.data↑NORM_ELEC_SA&NORM_ELEC_SA.1.data"NORM_ELEC_SA.data$NORM_GASANDELEC_SA2NORM_GASANDELEC_SA.1.data.NORM_GASANDELEC_SA.data┬NORM_GAS_SA$NORM_GAS_SA.1.data
NORM_GAS_SA.data*NORM_TOTAL_ANNUAL_KWH8NORM_TOTAL_ANNUAL_KWH.1.data4NORM_TOTAL_ANNUAL_KWH.data*NORM_TOTAL_ANNUAL_THM8NORM_TOTAL_ANNUAL_THM.1.data4NORM_TOTAL_ANNUAL_THM.data NORM_TOTAL_MBTU,NORM_TOTAL_MBTU.1.data(NORM_TOTAL_MBTU.data NORM_TOTAL_MTCO2.NORM_TOTAL_MTCO2.1.data*NORM_TOTAL_MTCO2.data"Number of Records0Number of Records.1.data,Number of Records.data−One¶One.1.data┼One.data $SCHEMAPROPS_ACTIVE.SCHEMAPROPS_ACTIVE.data.SCHEMAPROPS_ACTIVE.type SCHEMAPROPS_ID&SCHEMAPROPS_ID.data&SCHEMAPROPS_ID.type SCHEMAPROPS_KEY(SCHEMAPROPS_KEY.data(SCHEMAPROPS_KEY.dict(SCHEMAPROPS_KEY.type$SCHEMAPROPS_PARENT.SCHEMAPROPS_PARENT.data.SCHEMAPROPS_PARENT.type"SCHEMAPROPS_VALUE,SCHEMAPROPS_VALUE.data,SCHEMAPROPS_VALUE.dict,SCHEMAPROPS_VALUE.type SCHEMAS_ACTIVE&SCHEMAS_ACTIVE.data&SCHEMAS_ACTIVE.type¶SCHEMAS_ID SCHEMAS_ID.data SCHEMAS_ID.type↑SCHEMAS_NAME"SCHEMAS_NAME.data"SCHEMAS_NAME.dict"SCHEMAS_NAME.type"TABLEPROPS_ACTIVE,TABLEPROPS_ACTIVE.data,TABLEPROPS_ACTIVE.type→TABLEPROPS_ID$TABLEPROPS_ID.data$TABLEPROPS_ID.type TABLEPROPS_KEY&TABLEPROPS_KEY.data&TABLEPROPS_KEY.dict&TABLEPROPS_KEY.type"TABLEPROPS_PARENT,TABLEPROPS_PARENT.data,TABLEPROPS_PARENT.type
TABLEPROPS_VALUE*TABLEPROPS_VALUE.data*TABLEPROPS_VALUE.dict*TABLEPROPS_VALUE.type→TABLES_ACTIVE$TABLES_ACTIVE.data$TABLES_ACTIVE.type↕TABLES_ID TABLES_ID.data TABLES_ID.typ

e ┬ T A B L E S _ N A M E T A B L E S _ N A M E . d a t a
T A B L E S _ N A M E . d i c t
T A B L E S _ N A M E . t y p e → T A B L E S _ P A R E N T $ T A B
L E S _ P A R E N T . d a t a $ T A B L E S _ P A R E N T . t y p e
T O T A L _ K W H _ R A N K * T O T A L _ K W H _ R A N K . 1 . d
a t a & T O T A L _ K W H _ R A N K . d a t a & T O T A L _ K W H _
R A N K . d i c t T O T A L _ M B T U _ R A N K , T O T A L _ M B
T U _ R A N K . 1 . d a t a (T O T A L _ M B T U _ R A N K . d a t a
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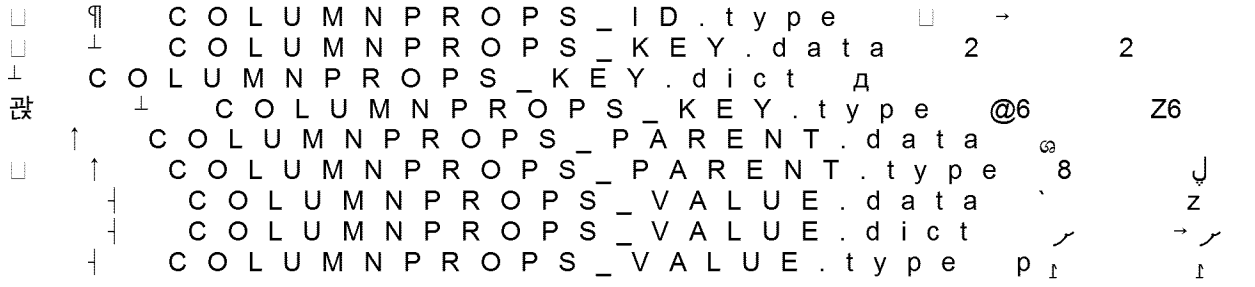
T O T A L _ M T C O 2 _ R A N K . T O T A L _ M T C O 2 _ R A N K
. 1 . d a t a * T O T A L _ M T C O 2 _ R A N K . d a t a * T O T A L
_ M T C O 2 _ R A N K . d i c t T O T A L _ T H M _ R A N K * T O
T A L _ T H M _ R A N K . 1 . d a t a & T O T A L _ T H M _ R A N K
. d a t a & T O T A L _ T H M _ R A N K . d i c t ¶ T O T _ C O U N
T Y " T O T _ C O U N T Y . 1 . d a t a " T O T _ C O U N T Y . 1 . d i
c t T O T _ C O U N T Y . d a t a T O T _ C O U N T Y . d i c t
◘ Y E A R ┬ Y E A R . 1 . d a t a ┬ Y E A R . 1 . d i c t ↕ Y E A R . d
a t a ↕ Y E A R . d i c t - Z I P ¶ Z I P . 1 . d a t a ¶ Z I P . 1 . d i
c t ┼ Z I P . d a t a ┼ Z I P . d i c t
a r r a y - a s c ♀ b i g i n t ♀ b i n a r y - b i t ♬ b o o l e a n ♬ b
u i l t i n , c l o b (1) c o l l a t e
b i n a r y ¶ c o m p a r a b l e ┼ d i s t i n c t ♀ d o u b l e ┐ f
f a l s e
f l o a t ◘ h e a p
i n d e x ♬ i n t e g e r ┬ i s U n m a t c h e d $ i s U n m a t c h e
d . 1 . d a t a
i s U n m a t c h e d . d a t a - k e y ¶ k e y . 1 . d a t a ¶ k e y . 1
. d i c t ┼ k e y . d a t a ┼ k e y . d i c t ┼ n o t -
n u l l - o i d ◘ r e a l ┐ t ◘ t i n y ◘ t r u e ♀ u n i q u e - u s r
v a l u e ↑ v a l u e . 1 . d a t a ↑ v a l u e . 1 . d i c t ¶ v a l u e .
d a t a ¶ v a l u e . d i c t ♬ v a r c h a r 8 v a r c h a r (1 0 , 1)
c o l l a t e b i n a r y : v a r c h a r (1 0 0 , 1) c o l l a t e
b i n a r y : v a r c h a r (1 2 7 , 2) c o l l a t e
b i n a r y : v a r c h a r (2 5 5 , 1) c o l l a t e
b i n a r y 8 v a r c h a r (3 2 , 1) c o l l a t e b i n a r y
␣ ␣ collation:binary
comparable:comparable
compression:heap
data-file:COLUMNPROPS_VALUE.data
datatype:usr
dict-file:COLUMNPROPS_VALUE.dict
distinct:distinct
factory:varchar
fixed:false
name:COLUMNPROPS_VALUE
not-null:not-null
precision:127
scale:2
size:508
storagewidth:8
type:varchar(127,2) collate binary
type-file:COLUMNPROPS_VALUE.type
␣ ↙ p ↥
␣♀ ↑ C O L U M N P R O P S _ A C T I V E . d a t a
↑ C O L U M N P R O P S _ A C T I V E . t y p e
¶ C O L U M N P R O P S _ I D . d a t a 0␣ J



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fixed:true
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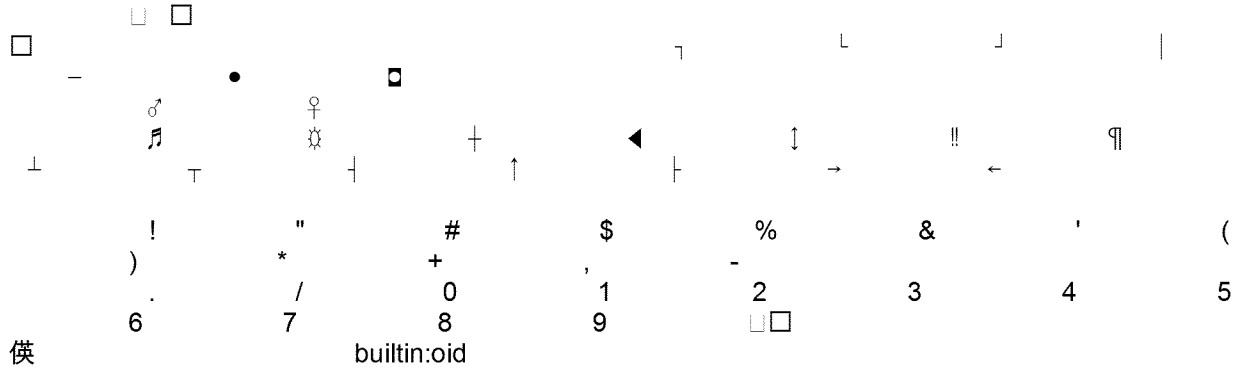
type:bit
type-file:COLUMNS_ACTIVE.type



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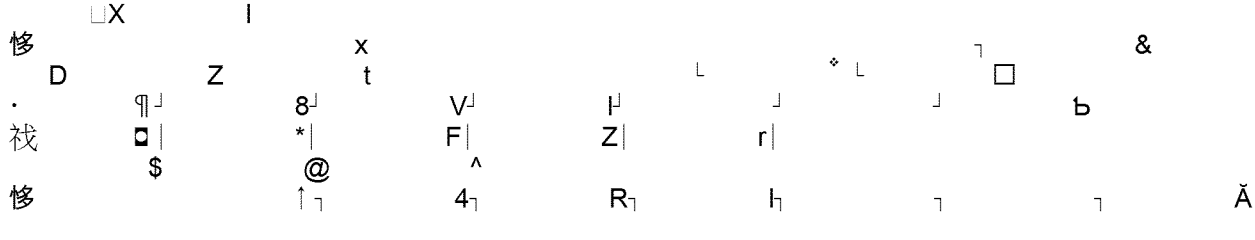

COLUMNPROPS_AREA↑AVG_KWH_RANK→AVG_MBTU_RANK AVG_MTCO2_RANK↑AVG_THM_RANK$COLUMNPROPS_ACTIVE COLUMNPROPS_ID COLUMNPROPS_KEY$COLUMNPROP

S _ P A R E N T " C O L U M N P R O P S _ V A L U E C O L U M N S _ A C T I V E ¶ C O L U M N S _ I D ↑ C O L U M N S _ N A M E C O L U M N S _ P A R E N T ♬ D U A L _ I D ↑ E L E C _ S A _ R A N K (G A S _ A N D _ E L E C _ S A _ R A N K ┬ G A S _ S A _ R A N K ↑ N O R M _ A V G _ K W H → N O R M _ A V G _ M B T U N O R M _ A V G _ M T C O 2 ↑ N O R M _ A V G _ T H M ↑ N O R M _ E L E C _ S A $ N O R M _ G A S A N D E L E C _ S A ┬ N O R M _ G A S _ S A * N O R M _ T O T A L _ A N N U A L _ K W H * N O R M _ T O T A L _ A N N U A L _ T H M N O R M _ T O T A L _ M B T U N O R M _ T O T A L _ M T C O 2 " N u m b e r o f R e c o r d s – O n e $ S C H E M A P R O P S _ A C T I V E S C H E M A P R O P S _ I D S C H E M A P R O P S _ K E Y $ S C H E M A P R O P S _ P A R E N T " S C H E M A P R O P S _ V A L U E S C H E M A S _ A C T I V E ¶ S C H E M A S _ I D ↑ S C H E M A S _ N A M E " T A B L E P R O P S _ A C T I V E → T A B L E P R O P S _ I D T A B L E P R O P S _ K E Y " T A B L E P R O P S _ P A R E N T T A B L E P R O P S _ V A L U E → T A B L E S _ A C T I V E ↕ T A B L E S _ I D ┬ T A B L E S _ N A M E → T A B L E S _ P A R E N T T O T A L _ K W H _ R A N K T O T A L _ M B T U _ R A N K T O T A L _ M T C O 2 _ R A N K T O T A L _ T H M _ R A N K ¶ T O T _ C O U N T Y ◘ Y E A R – Z I P ┬ i s U n m a t c h e d – k e y

v a l u e ␣ 戕 □ collation:binary
comparable:comparable
compression:heap
data-file:COLUMNS_NAME.data
datatype:usr
dict-file:COLUMNS_NAME.dict
distinct:distinct
factory:varchar
fixed:false
name:COLUMNS_NAME
not-null:not-null
precision:127
scale:2
size:508
storagewidth:8
type:varchar(127,2) collate binary
type-file:COLUMNS_NAME.type
␣ · <
␣

builtin:oid
data-file:COLUMNS_PARENT.data
datatype:index
factory:builtin
fixed:true
name:COLUMNS_PARENT
not-null:not-null

size:8
type:oid
type-file:COLUMNS_PARENT.type
P
¶ COLUMNS_ACTIVE.data □
¶ COLUMNS_ACTIVE.type # ف ┼
COLUMNS_ID.data
偀 ʤ ┼ COLUMNS_ID.type p恀
恀 ↕ COLUMNS_NAME.data `戢 z
戢 ↕ COLUMNS_NAME.dict □
↕ COLUMNS_NAME.type @ Z
¶ COLUMNS_PARENT.data 0 J
¶ COLUMNS_PARENT.type →
0 8 builtin:oid
data-file:DUAL_ID.data
datatype:index
factory:builtin
fixed:true
name:DUAL_ID
not-null:not-null
size:8
type:oid
type-file:DUAL_ID.type
`
┐
DUAL_ID.data @ Z
DUAL_ID.type →
builtin:bit
data-file:SCHEMAPROPS_ACTIVE.data
datatype:boolean
default-value:t
factory:builtin
fixed:true
name:SCHEMAPROPS_ACTIVE
not-null:not-null
size:1
type:bit
type-file:SCHEMAPROPS_ACTIVE.type
6
┐ └
ɜ builtin:oid
data-file:SCHEMAPROPS_ID.data
datatype:index
factory:builtin
fixed:true
name:SCHEMAPROPS_ID
not-null:not-null
size:8
type:oid
type-file:SCHEMAPROPS_ID.type
¶ ¶
8 ɲ ↕ data-file◘ name
collation:binary
comparable:comparable
compression:heap
data-file:SCHEMAPROPS_KEY.data
datatype:usr

dict-file:SCHEMAPROPS_KEY.dict
distinct:distinct
factory:varchar
fixed:false
name:SCHEMAPROPS_KEY
not-null:not-null
precision:127
scale:2
size:508
storagewidth:8
type:varchar(127,2) collate binary
type-file:SCHEMAPROPS_KEY.type
␣@␣ ␣
␣ ␣ κ builtin:oid
data-file:SCHEMAPROPS_PARENT.data
datatype:index
factory:builtin
fixed:true
name:SCHEMAPROPS_PARENT
not-null:not-null
size:8
type:oid
type-file:SCHEMAPROPS_PARENT.type
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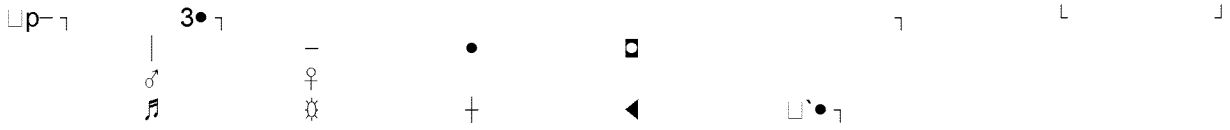
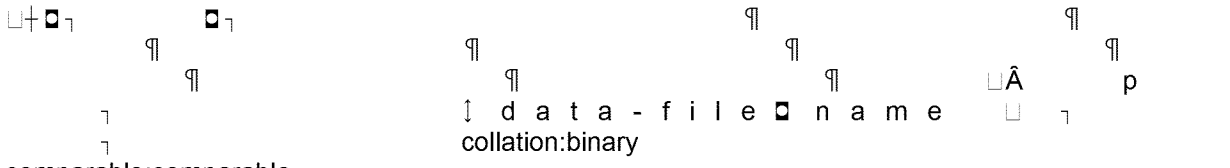
␣ ♬ E x t r a c t − S Y S ␣┼␣ (
␣ collation:binary
comparable:comparable
compression:heap
data-file:SCHEMAPROPS_VALUE.data
datatype:usr
dict-file:SCHEMAPROPS_VALUE.dict
distinct:distinct
factory:varchar
fixed:false
name:SCHEMAPROPS_VALUE
not-null:not-null
precision:127
scale:2
size:508
storagewidth:8
type:varchar(127,2) collate binary
type-file:SCHEMAPROPS_VALUE.type
␣P␣ ␣
␣♀ ↑ S C H E M A P R O P S _ A C T I V E . d a t a ␣
␣ ↑ S C H E M A P R O P S _ A C T I V E . t y p e ␣
␣ ¶ S C H E M A P R O P S _ I D . d a t a з
귁 ¶ S C H E M A P R O P S _ I D . t y p e ␣
␣ ⊥ S C H E M A P R O P S _ K E Y . d a t a ก
␣ ⊥ S C H E M A P R O P S _ K E Y . d i c t ␣ :
␣ ⊥ S C H E M A P R O P S _ K E Y . t y p e ␣
␣ ↑ S C H E M A P R O P S _ P A R E N T . d a t a к
깰 ↑ S C H E M A P R O P S _ P A R E N T . t y p e
␣ ‘ ┤ S C H E M A P R O P S _ V A L U E . d a t a ␣
␣ ┤ S C H E M A P R O P S _ V A L U E . d i c t 0␣ J
␣ ┤ S C H E M A P R O P S _ V A L U E . t y p e ␣

builtin:bit
data-file:SCHEMAS_ACTIVE.data
datatype:boolean
default-value:t
factory:builtin
fixed:true
name:SCHEMAS_ACTIVE
not-null:not-null
size:1
type:bit
type-file:SCHEMAS_ACTIVE.type
builtin:oid
data-file:SCHEMAS_ID.data
datatype:index
factory:builtin
fixed:true
name:SCHEMAS_ID
not-null:not-null
size:8
type:oid
type-file:SCHEMAS_ID.type
E x t r a c t - S Y S
collation:binary
comparable:comparable
compression:heap
data-file:SCHEMAS_NAME.data
datatype:usr
dict-file:SCHEMAS_NAME.dict
distinct:distinct
factory:varchar
fixed:false
name:SCHEMAS_NAME
not-null:not-null
precision:127
scale:2
size:508
storagewidth:8
type:varchar(127,2) collate binary
type-file:SCHEMAS_NAME.type
S C H E M A S _ A C T I V E . d a t a
S C H E M A S _ A C T I V E . t y p e
S C H E M A S _ I D . d a t a
S C H E M A S _ I D . t y p e
S C H E M A S _ N A M E . d a t a
S C H E M A S _ N A M E . d i c t
S C H E M A S _ N A M E . t y p e
builtin:bit
data-file:TABLEPROPS_ACTIVE.data
datatype:boolean
default-value:t
factory:builtin
fixed:true

name:TABLEPROPS_ACTIVE
not-null:not-null
size:1
type:bit
type-file:TABLEPROPS_ACTIVE.type



data-file:TABLEPROPS_ID.data
datatype:index
factory:builtin
fixed:true
name:TABLEPROPS_ID
not-null:not-null
size:8
type:oid
type-file:TABLEPROPS_ID.type



comparable:comparable
compression:heap
data-file:TABLEPROPS_KEY.data
datatype:usr
dict-file:TABLEPROPS_KEY.dict
distinct:distinct
factory:varchar
fixed:false
name:TABLEPROPS_KEY
not-null:not-null
precision:127
scale:2
size:508
storagewidth:8
type:varchar(127,2) collate binary
type-file:TABLEPROPS_KEY.type

data-file:TABLEPROPS_PARENT.data
datatype:index
factory:builtin
fixed:true
name:TABLEPROPS_PARENT
not-null:not-null
size:8
type:oid
type-file:TABLEPROPS_PARENT.type

collation:binary
comparable:comparable
compression:heap
data-file:TABLEPROPS_VALUE.data
datatype:usr
dict-file:TABLEPROPS_VALUE.dict
distinct:distinct
factory:varchar
fixed:false
name:TABLEPROPS_VALUE
not-null:not-null
precision:127
scale:2
size:508
storagewidth:8
type:varchar(127,2) collate binary
type-file:TABLEPROPS_VALUE.type
builtin:bit
data-file:TABLES_ACTIVE.data
datatype:boolean
default-value:t
factory:builtin
fixed:true
name:TABLES_ACTIVE
not-null:not-null
size:1
type:bit
type-file:TABLES_ACTIVE.type
builtin:oid
data-file:TABLES_ID.data

datatype:index
factory:builtin
fixed:true
name:TABLES_ID
not-null:not-null
size:8
type:oid
type-file:TABLES_ID.type

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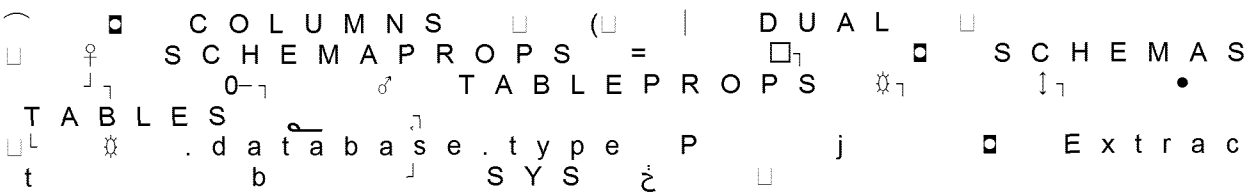
␣ ┴┐ H┴┐
$ T a b l e a u M e t a d a t a ┬ C O L U M N P R O P S ♬ C O L U M
N S ◘ D U A L ♬ E x t r a c t ┬ S C H E M A P R O P S ♬ S C H E M
A S ¶ T A B L E P R O P S ♀ T A B L E S ␣p┴┐
┬┐ collation:binary
comparable:comparable
compression:heap
data-file:TABLES_NAME.data
datatype:usr
dict-file:TABLES_NAME.dict
distinct:distinct
factory:varchar
fixed:false
name:TABLES_NAME
not-null:not-null
precision:127
scale:2
size:508
storagewidth:8
type:varchar(127,2) collate binary
type-file:TABLES_NAME.type

␣@┬┐ x┤┐
␣ ┤┐
蔡 builtin:oid
data-file:TABLES_PARENT.data
datatype:index
factory:builtin
fixed:true
name:TABLES_PARENT
not-null:not-null
size:8
type:oid
type-file:TABLES_PARENT.type
␣┼↑┐ ↑┐ ␣
‼ T A B L E S _ A C T I V E . d a t a B┐
☦ ‼ T A B L E S _ A C T I V E . t y p e ‼┐ ʒ┐ ☼
T A B L E S _ I D . d a t a
¶┐ :¶┐ ☼ T A B L E S _ I D . t y p e □
␣ ◄ T A B L E S _ N A M E . d a t a P┴┐ j┴┐ ◄ T A
B L E S _ N A M E . d i c t
┬┐ :┬┐ ◄ T A B L E S _ N A M E . t y p e ┤┐ ┤┐
‼ T A B L E S _ P A R E N T . d a t a ␣
↑┐ ‼ T A B L E S _ P A R E N T . t y p e ↑┐ ♋
␣• ♀ C O L U M N P R O P S ı


COLUMNS
DUAL
SCHEMAPROPS
SCHEMAS
TABLEPROPS
TABLES
.database.type
Extrac
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