Macintosh System Software 6.0.4 Final Change History
Revision Date: September 8, 1989

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Summary:

Be advised that to support forthcoming products, we've made changes to several Toolbox Managers to ensure compatibility. In virtually all instances the functionality of these Toolbox Managers has not changed. Two Toolbox Managers that have changed in functionality are the Script Manager and the Sound Manager. This Change History covers changes made to these Toolbox Managers. There are also notes detailing changes and bug fixes made to: Finder, MultiFinder, Apple File Exchange, CloseView cdev, Monitors cdev, Chooser DA, Control Panel DA, Calculator DA, Responder INIT, and FKEY-3 (screen dump). New additions to the System Disk are: Installer 3.0, Gestalt (new SysEnvirons), Portable cdev, and Battery DA to support the Macintosh Portable. Please use the enclosed System Software 6.0.4 Final disks to test for compatibility with your products. Be sure to report any new problems to Macintosh Developer Technical Support (AppleLink: MacDTS).

Finder:

✦❉■❄❁❒ ■❑ ●❑■❇❁❒ ❒❁❉■▼▲ ▼✳❁ ❄❁▲✱▼❑❒ ❒❁▼▼❁❒■ ◗✳❁■ ❒◆■■❉■❇ ◆■❄❁❒ ★◆●▼❉✦❉■❄❁❒✎ ✩■ ❒❒❁❖❉❑◆▲ ❖❁❒▲❉❑■▲✌ ❁❑▼✳ ★◆●▼❉✦❉■❄❁❒ ❁■❄ ✦❉■❄❁❒ ❒❁❉■▼❁❄ ▼✳❁ ❄❁▲✱▼❑❒✎

✡ ▲○❁●● ▼◗❁❁✳ ❁❑❒ ✣✤✍✲☆★ ❖❑●◆○❁▲✢ ◗✳❁■ ❁ ❁❑●❄❁❒ ❉▲ ❃●❑▲❁❄ ❑■ ❁ ●❑❃✳❁❄ ❄❉▲✱✌ ▲❁❖❉■❇ ❁■❙ ■❁◗ ●❑❃❁▼❉❑■▲ ▼❑ ❄❉▲✱ ❉▲ ▲✱❉❒❒❁❄✎ ✶✳❉▲ ▲✳❑◆●❄ ❉■❃❒❁❁▲❁ ▼✳❁ ▲❒❁❁❄ ❑❁ ❃●❑▲❉■❇ ❁ ❁❑●❄❁❒ ❑■ ✣✤✍✲☆★▲✎

✶✳❋ ❾❑◆▼ ❑❁ ○❋○❑❑❙⓾ ❁●❋❑▼▲ ❁❑❋ ■❑◗ ▼❁●●❋❑ ▲❑ ▼✳❋ ▼❋❙▼ ❉▲ ■❑▼ ❃●❉❑❑❋❁✎

✶✳❋ ❃◆❑▲❑❑ ❑❋❉❉❑■ ❉▲ ■❑◗ ❃❑○❑◆▼❋❁ ◗❉▼✳ ◗❉❁❋ ❑❑❋■ ❑❋❉❉❑■ ❉■▲▼❋❁❁ ❑❁ ✧❑❁❙✲❉■ ◗✳❋■ ❋❁❉▼❉■❉ ❁❉●❋ ■❁○❋▲✎

✦❉■❁❋❑ ■❑ ●❑■❉❋❑ ◗❁●✱▲ ▼✳❋ ✦✣✢ ●❑❑✱❉■❉ ❁❑❑ ❑❑❋■❋❁ ❁❉●❋▲ ❁❋❁❑❑❋ ▼❑❙❉■❉ ▼❑ ◆■○❑◆■▼ ❁ ❁❉▲✱✢ ❉▼ ■❑◗ ❁❋❑❋■❁▲ ❑■ ❋■○❑◆■▼✶❑● ▼❑ ❁❑ ▼✳❋▲✎ ✶✳❉▲ ◗❁▲ ❁❑■❋ ▼❑ ❁❋❃❑○○❑❁❁▼❋ ▼✳❋ ✤❋▲✱▼❑❑ ★❁■❁❉❋❑ ◗✳❉❃❋ ❁●◗❁❙▲ ✱❋❋❑▲ ✒ ❁❉●❋▲ ❑❑❋■❋❁ ❑❋❑ ❖❑●◆○❋✎ ❋■○❑◆■▼✶❑● ❉▲ ■❑◗ ❑❁▼❃✳❋❁ ❁❙ ★◆●▼❉✦❉■❁❋❑ ▼❑ ❃❁▲❋ ❑◆▼ ▼✳❋ ▲❑❋❃❉❁● ❁❋▲✱▼❑❑ ❁❉●❋✈ ▲✉✎

✦❉■❁❋❑ ◗❉■❁❑◗▲ ❃❁■ ■❑◗ ❁❋ ▲❉❙❋❁ ●❁❑❉❋❑ ▼✳❁■ ▼✳❋ ○❁❉■✍▲❃❑❋❃■✎

★❑❁❉❁❉❃❁▼❉❑■▲ ▼❑ ▼✳❋ ✳❑❋❃❉❁● ○❋■◆ ❃❑❁❋ ▼❑ ✳❁■❁●❋ ★❁❃❉■▼❑▲✳ ☆❑❑▼❁❁●❋✇▲ ✳●❋❃❑ ▲▼❁▼❋✎

✦❉❙❋ ❁ ❁◆❉ ◗✳❃✳ ❃❁◆▲❋❁ ❁❉▲✱ ❉■▲❋❑▼❉❑■ ❋❖❋■▼▲ ▼❑ ❁❋ ○❉▲▲❋❁ ❑■ ★❁❃❉■▼❑▲✳ ☆●◆▲✎

✦❉❙❋❁ ○❁▲▼❋❑ ❑❑❉■▼❋❑ ▲❁❖❉■❉ ❁◆❉ ❉■ ✣❑○✥■▼❑❙ ◗✳❉❃✳ ❃❁◆▲❋❁ ▼✳❋ ✦❉■❁❋❑ ▼❑ ❃❑❁▲✳ ❁❁▼❋❑ ❑◆■■❉■❉ ❃❋❑▼❁❉■ ❁❑❑●❉❃❁▼❉❑■▲✎

✦❉❙❋❁ ❑❁■❉○ ○❋○❑❑❙ ❑❋❁❁ ❁◆❉ ◗✳❉❃✳ ❃❑◆●❁ ❃❁◆▲❋ ❖❉❁❋❑ ❃❁❑❉▲ ▼❑ ▲❃❑❁○❁●❋ ❑◆▼❑◆▼✎

✦❉❙❋❁ ❁■ ❉■❁❉■❉▼❋ ●❑❑❑ ❁◆❉ ❉■ ✣●❑▲❋✶❁▲ ◗✳❉❃✳ ✳❁❑❑■❋❁❁ ❉❁ ▼✳❋ ✦❉■❁❋❑ ❉▲ ●❁◆■❃✳❋❋❁ ❂❙ ❁■❑▼✳❋❑ ❁❑❑●❉❃❁▼❉❑■✎

★❁❁❋ ❁ ■◆○❁❋❑ ❑❁ ❃✳❁■❉❋▲ ▼❑ ▲◆❑❑❑❑▼ ▼✳❋ ■❋◗ ✣☆❋▲✌ ◆■❃●◆❁❉■❉ ❁❁❁❉■❉ ✇✳●❋❃❑❑✇ ▼❑ ▼✳❋ ✇✳❑❃❃❉❁●✇ ○❋■◆ ❁❑❑ ★❁❃❉■▼❑▲✳ ☆❑❑▼❁❁●❋✎

MultiFinder:

✶✳❋ ✿❀❁◆■❃✳ ▼❑❁❑ ▲❑❋❃❉❁❙❉■❁ ●❁◆■❃✳✂ ❁■❁ ★✦❀❁◆■❃✳ ■❑◗ ❑❋▼◆❑■ ▼✳❋ ❂◆❂❂●❋❁ ◆❑ ❑❋▲❑◆❑❃❋ ○❁■❁❉❁❑ ❋❑❑❑❑ ❁▲ ❁ ❑❋▲◆●▼ ❃❑❁❋ ❉❁ ▼✳❋ ❁❑❑●❉❃❁▼❉❑■ ❑❋▲❑◆❑❃❋ ❁❉●❋ ❃❑◆●❁■✇▼ ❂❋ ❑❑❋■❋❁✎ ✶✳❋❙ ◆▲❋❁ ▼❑ ❑❋▼◆❑■ ❁ ★◆●▼❉✦❉■❁❋❑ ❁❋❁❉■❋ ❖❁●◆❋ ✈✍✙✉✌ ◗✳❋❃✳ ◗❁▲■✇▼ ❖❋❑❙ ❑❑❋■❋❁❁✎

☆■❉▼❉❁●❉❙❁▼❉❑■ ❃❑❁❋ ■❑◗ ❋■▲◆❑❋▲ ▼✳❋❁▼ ▼✳❋ ▲❙▲▼❋○ ❉▲ ■❑▼ ✓✒✍❂❉▼ ○❑❁❋✎

Installer:

Apple File Exchange:

✦❉ | ❁❁ ❁ ❁◆❉ ›❉▼✳ ▼✳❁ ☆✳☆✳ ❒❁▲❑◆❒❋❁ ▼❑ ❁■▲◆❒❁ ▼✳❁▼ ▼✳❁ ✡❁❑◆▼ ✢❑ | ❁●›❁ | ▲ ❁◆■❋▼❉❑■▲ ❒❒❑❒❁❒● | ✎

✦❉ | ❁❁ ❁ ❁◆❉ ›✳❁■ ◆▲❉■❉ ▼✳❁ ✲❁■❁○❁ ✤❁ ▲▼❉■❁▼❉❑■ ✦❉●❁▲ ❁❁❁▼◆❒❁✎ ✡■ ◆■❉■❉▼❉❁●❉ | ❁❁ ❖❁❒❉❁❁●❁ ❋❁◆▲❁❁ ▼✳❁ ❁■▼❉❒❁ ❁❁❁●❑✲ ▼❑ ❁❉▲❁❒❒❁❁❒ ❉■ ▲❑○❁ ❋❁▲❁▲✎

CloseView cdev:

✣●❑▲❁✶❉❁› ✑✎✑ ❁❉ | ❁▲ ○❁■ | ❑❁ ▼✳❁ ❁◆✤▲ ❉■ ✑✎✐ ›❉▼✳❑◆▼ ❋✳❁■❉❁■❉ ▼✳❁ ❁❁▲❁❋ ✣●❑▲❁✶❉❁› ❁❁▲❉❁■✎ ☆❑▼❁ ▼✳❁▼ ▼✳❉▲ ○❁❁■▲ ▼✳❁▼ ▼✳❁ ❁●❁▲✳❉■❉ ❉▼❁○▲ ❑■ ▼✳❁ ▲❋❒❁❁■ ○❁ | ■❑▼ ❁●❁▲✳ ◆■❁❁❒ ✣●❑▲❁✶❉❁› ✎

✦❉ | ❁❁ ❁ ❒❒❑❁●❁○ ›❉▼✳ ▲›❉▼❋✳❉■❉ ❁❉▼ ❁❁❒▼✳▲ ›✳❉●❁ ✣●❑▲❁✶❉❁› ❉▲ ❑■✎

✣●❑▲❁✶❉❁› ■❑› ▲❁❖❁▲ ❉▼▲ ❑■✏❑❁❁ ▲❁▼▼❉■❉▲✎ ✣❑○○❁■❁✍☆❒▼❉❑■✍☆ ✳❁ | ›❑❒✳▲ ❁❖❁■ ›✳❁■ ✣●❑▲❁✶❉❁› ❉▲ ▼◆❒■❁❁ ❑❁❁✎ ✶✳❉▲ ❁●●❑›▲ ❁ ❖❉▲◆❁●● | ❉○❒❁❉❒❁❁ ◆▲❁❒ ▼❑ ▼◆❒■ ✣●❑▲❁✶❉❁› ❁❁❋✳ ❑■✌ ❁❖❁■ ❉❁ ▼✳❁ ✳❁ | ❁❑◆❉❖❁●❁■▼▲ ❁■❁ ✣●❑▲❁✶❉❁› ›❁❒❁ ▼◆❒■❁❁ ❑❁❁ ❁ | ❁■❑▼✳❁❒ ◆▲❁❒✎

✳❑○❁ ✣❑●❑❒ ✱◆❉❋✳✤❒❁› ❒❁▼❁✳❁▲ ›❁❒❁ ○❑❁❉❁❉❁❁ ▼❑ ○❁❋❁ ▲◆❒❁ ▼✳❁▼ ▼✳❁ | ■❁❖❁❒ ❒◆■ ❑■ ○❁❋✳❉■❁▲ ›❉▼✳❑◆▼ ✣❑●❑❒ ✱◆❉❋✳✤❒❁› ✎

✶✳❁ ☆■❉▼✧✤❁❖❉❋❁ ❒❁▼❋✳ ›❁▲ ❉○❒❒❑❖❁❁ | ❁▼ ❁❉❁❉■✎ ✶✳❉▲ ▲✳❑◆●❁ ❉❋▼ ❒❉❁ ❑❁ ❒❒❑❁●❁○▲ ›❉▼✳ ✓✒✍✢❉▼ ✱◆❉❋✳✤❒❁› ›✳❁■ ▲›❉▼❋✳❉■❉ ❉■▼❑ ✑✖ ❋❑●❑❒ ○❑❁❁✎ ✡●▲❑✌ ▼✳❉▲ ›❉●● ❋❁◆▲❁ ▼✳❁ ❁■▼❉❒❁ ▲❋❒❁❁■ ▼❑ ❁●❁■✳✌ ❁❖❁■ ›✳❁■ | ❑◆ ❁❒❁ ❑■● | ▲›❉▼❋✳❉■❉ ❁❒❑❑○ ❋❑●❑❒▲ ▼❑ ❉❒❁ | ▲✎

✶✳❁❒❁ ❉▲ ■❑› ❁ ■❑▼❉❁❉❋❁▼❉❑■ ›✳❁■ ▼✳❁ ❁❁❒▼✳ ❑❁ ▼✳❁ ▲❋❒❁❁■ ❁❁❋❑○❁▲ ▼❑❑ ❁❉❉ ▼❑ ❁❉▼ ❉■ ○❁○❑❒ | ✎

✳ | ▲▼❁○✳❁▲✳ ❉▲ ■❑› ❒❁▼❋✳❁❁ ❉■▲▼❁❁❁ ❑❁ ✧❁▼★❑◆▲❁✎ ✶✳❉▲ ○❁❁■▲ ▼✳❁▼ | ❑◆ ❋❁■ ▼◆❒■ ✣●❑▲❁✶❉❁› ❑■ ❁■❁ ❑❁❁✌ ❁❖❁■ ❉❁ | ❑◆ ❁❒❁ ❉■ ❁ ○❑❁❁● ❁❉❁●❑❉✎

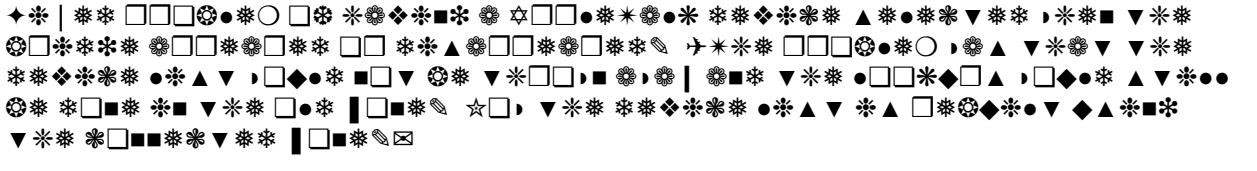
✣●❑▲❁✶❉❁› ■❑› ❉❁▼▲ ❒❁▲❑◆❒❋❁▲ ❁❒❑❑○ ❉▼▲ ❁❉●❁ ❁ | ■◆○❁❋❒ ❉■▲▼❁❁❁ ❑❁ ❁ | ■❁○❁✎

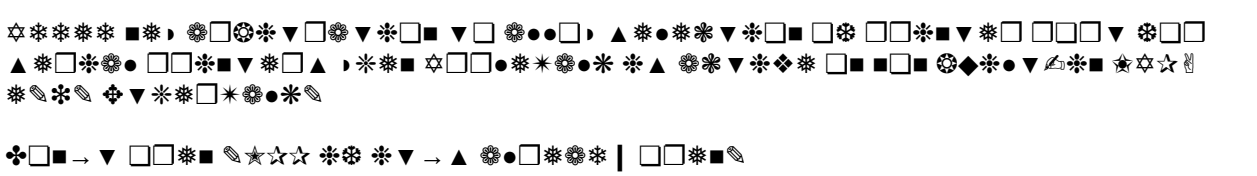
✣❑❒ | ✢❉▼▲ ▼❑ ❁■❁ ❁❒❑❑○ ❑❁❁▲❋❒❁❁■ ❒❉ | ○❁❒▲ ❁❒❁ ■❑› ✳❁■❁●❁❁ ❒❑❑❑❁❒● | ✎

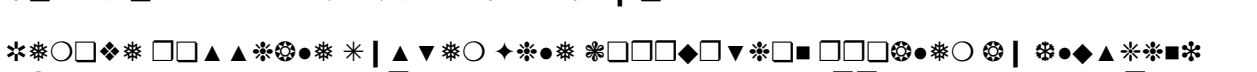
✶✳❁ ☆■❉▼✧✤❁❖❉❋❁ ❒❁▼❋✳ ›❁▲ ❉○❒❒❑❖❁❁✎ ✶✳❉▲ ▲✳❑◆●❁ ❉❁▼ ❒❉❁ ❑❁ ❁❁▼●❾▲■❑›⓾ ❋❒❁▲✳❁▲ ›✳❁■ ❒◆■■❉■❉ ❑■ ★❁❋❉■▼❑▲✳ ☆☆ ›❉▼✳❑◆▼ ✓✒✍ ✢❉▼ ✱◆❉❋✳✤❒❁›✎

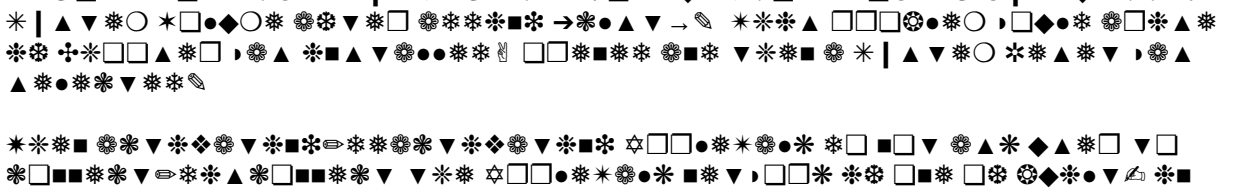
Monitors cdev:

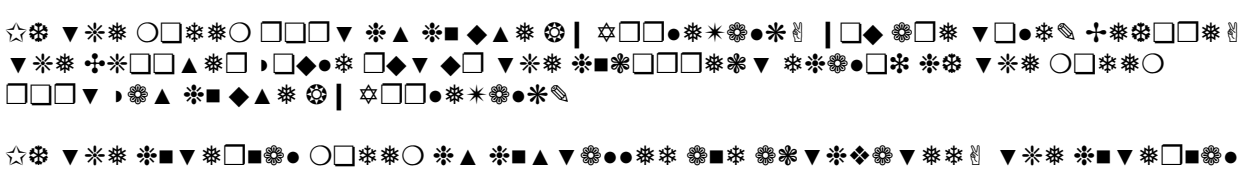
Chooser DA:



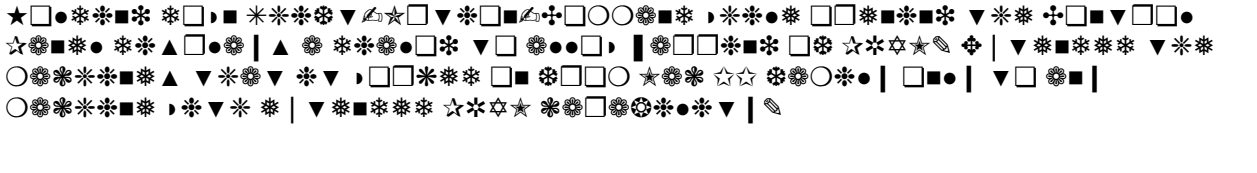




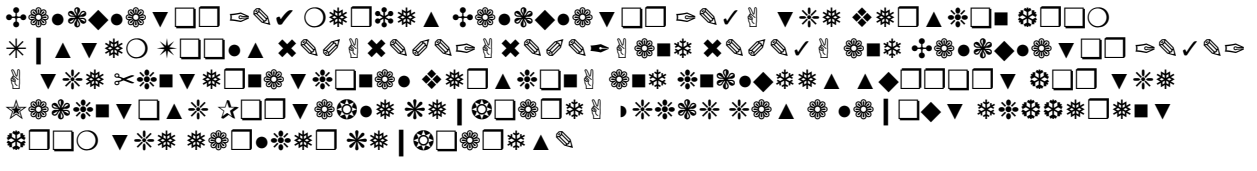




Control Panel DA:



Calculator DA:



☆▼ ■❑◗ ✳❁■❄●❋▲ ❉■▼❋❑■❁▼❉❑■❁● ▲❋❑❁❑❁▼❑❑▲ ❑❑❑❑❋❑● | ✎

✣❁●❋◆●❁▼❑❑ ■❑◗ ✳❁■❄●❋▲ ❋❑◆■▼❑❉❋▲ ▼✳❁▼ ✳❁❖❋ ❁❉ | ❋❄ ▼✳❋❋❑ ✡✣✢ ▲▼❁■❄❁❑❄ ✳❋ | ❂❑❁❑❄ ○❁❑❑❉■✤✎ ✶✳❉▲ ▲✳❑◆●❄ ■❑▼ ❁❁❁❋❋▼ ▼✳❋ ❋✎✳✎ ✣❁●❋◆●❁▼❑❑ ❑◆■▲ ☆❋ | ✳❑❁■▲ ❑■ ▼✳❋ ✳❋ | ▼✳❁▼ ❉▲ ■❑❑○❁●● | ❁ ✂✍✂✎ ☆❁ ☆❋ | ✳❑❁■▲ ❑❋▼◆❑■▲ ❁ ✂☞✂✌ ❉▼ ❁▲▲◆○❋▲ ▼✳❁▼ ▼✳❋ ☆✢★✲ ❉▲ ◗❑❑✳❋■✻ ❁❑❑◆■❄ ▼✳❋ ❑●◆▲ ❑❖❋❑ ○❉■◆▲ ❑❑❑❂●❋○ ❁■❄ ▼❑❋❁▼▲ ▼✳❋ ✳❋ | ❂❑❁❑❄ ❁▲ ✂○❉■◆▲ ❑❖❋❑ ❑●◆▲✂✎ ✶✳❉▲ ❋❑❄❋ ❑■● | ❑◆■▲ ❑■ ○❁❋✳❉■❋▲ ◗❉▼✳ ✡✣✢ ▲▼❁■❄❁❑❄ ✳❋ | ❂❑❁❑❄▲✎

Responder

✲❋▲❑❑■❄❋❋❑ ✳❁▲ ❂❋❋■ ○❑❄❉❁❉❉❄❄ ▼❑ ◆▲❋ ✧❋▲▼❁●▼✌ ❉❁ ❑❑❋▲❋■▼✎

✳ | ▲▼❋○ ❁❉●❋ ❑❋▲❑◆❑❋❋ ✳✳✲✁ ☆✣✝✍✑✐ ■❑◗ ✳❁▲ ❂❋❋■ ❋✳❁■❉❋❄ ▼❑ ✳✳✲ ✁ ☆✣✝✍✑✖✓✙✕✎ ✡▲ ❁ ❑❋▲◆●▼ ▼✳❋❑❋ ❉▲ ■❋◗ ✲❋▲❑❑■❄❋❑ ✈❖▲✎ ✑✎✑✎✑✉ ◗✳❉❋✳ ■❑◗ ●❑❑✳▲ ❁❑❑ ▼✳❋ ❄❉❁❁❋❑■❋▼ ★❁❋❉■▼❑▲✳ ■❁○❋ ▲▼❑❉■✻▲ ❉■ ✳✳✲✁ ☆✣✝ ✍✑✖✓✙✕ ❉■▲▼❋❁❄ ❑❁ ✳✳✲✁ ☆✣✝✍✑✐✎

✣☆✳✵ ☆✣✝✕✕✕ ❑❋▲❑◆❑❋❋ ◗❁▲ ❋✳❁■❉❄❄ ▼❑ ❑❋❁❄ ✂☆●❋❁▲❋ ■❁○❋ | ❑◆❑ ★❁❋❉■▼❑▲✳ ❋❑○❑◆▼❋❑✚✂✎ ✲❋○❋○❂❋❑✌ ✡❑❑●❋ ❄❑❋▲■✇▼ ○❁✳❋ ◗❑❑✳▲▼❁▼❉❑■▲✁ ✈✳❋❋✍✳❋❋✉

FKEY 3

✶✳❋❑❋ ❁❑❋ ▼◗❑ ○❉■❑❑ ❋✳❁■❉❋▲ ▼❑ ▼✳❋ ❋❑❄❋✎ ✶✳❋▲❋ ❁❑❋ ❂◆❖ ❄❉ | ❋▲✌ ❁▲ ❑❑❑❑▲❋❄ ▼❑ ❋❑▲○❋▼❖❋ ❋✳❁■❉❋▲✎ ☆❋❉▼✳❋❑ ❂◆❖ ◗❑◆●❄ ❁❁❁❋❋▼ ❁■ | ❋◆❑❑❋■▼ ○❁❋✳❉■❋▲✌ ❂◆▼ ▼✳❋ | ❋❑◆●❄ ❋❁◆▲❋ ❁ ❑❑❑❂●❋○ ❑■ ❄◆▼◆❑❋ ○❁❋✳❉■❋▲✎

✳❑❋❋❉❄❋❁●● | ✌ ▼✳❋ ❋✳❋❋✻ ❁❑❑ ❋❑●❑❑ ✱✣ ◗❁▲ ❄❑❉■✣ ❁■ ✢★☆ ◗✳❉❋✳ ❋✳❋❋✳❋❄ ❁●● ❂❉▼▲ ✈▲❑○❋ ❑❁ ◗✳❋❋✳ ❉▼ ❄❉❄■✇▼ ✻■❑◗ ❁❂❑◆▼✉✌ ▲❑ ❉▼ ◗❁▲ ❋✳❁■❉❋❄ ▼❑ ❁ ✢✶✶✶ ❉■▲▼❋❁❄✎ ✡●▲❑ ▼✳❋ ❑❑▼❁▼❉❑■ ❋❑❄❋ ❁❄❋▲ ❉■ ❁ ★☆✣ ✘ ❑❁❄▲❋▼ ▼❑ ❁❉■❄ ▼✳❋ ❁❄❋❑❋▲▲ ▼❑ ▲▼❁❑▼ ❑❁❋✳❉■❋ ❂ | ▼❋▲✌ ❁■❉ ❉▼ ■❋❋❄❋❋ ▼❑ ❂❋ ❁ ◗❑❑❉ ❁❄❋ ❉■▲▼❋❁❄ ❑❁ ●❑■❉ ▼❑ ❁❖❑❉❄ ▼✳❋ ▼❑❑ ◗❑❑❉ ◗✳❉❋✳ ❋❑◆●❄ ❂❋ ❁❉●●❄❄ ◗✳▼✳ ✳◆■✻✎

System File:

✧❋▲▼❁●▼
✧❋▲▼❁●▼✌ ❁ ■❋◗ ◗❁ | ❑❁ ❄❋▼❋❑○❉■❉■❉ ▲❑❋❋❉❁❉❋ ❄❋▼❁❉●▲ ❑❁ ▼✳❋ ❋■❖❉❑❑■○❋■▼ ❁■ ❁❑❑●❋❁▼❉❑■ ❉▲ ❑◆■■❉■❉ ❉■✌ ❉▲ ❑❑❋▲❋■▼ ❉■ ✳ | ▲▼❋○ ✖✎✐✎✔✎

✤❋▼❁❉●▲ ❑■ ▼✳❋ ◆▲❋ ❑❁ ✧❋▲▼❁●▼ ◗❉●● ❁❋ ❒◆❁●❉▲✳❋❄ ❉■ ❁
❄❑❒▼✳❋❑○❉■✣ ✶❋❋✳ ☆❑▼❋ ❄❒❑○ ★❁❋✤✶✳✎

✳❑◆■❄ ★❁■❁❉❋❑
✳❙▲✢❋❋❒ ◗❉●● ■❑◗ ❄●❁▲✳ ▼✳❋ ★❋■◆✢❁❒ ◗✳❋■ ❁ ▲❑◆■❄ ❋✳❁■■❋● ❉▲
❁❋▼❉❖❋✎ ☆❑❋❖❉❑◆▲●❙✌ ❁ ✳❙▲✢❋❋❒ ◗❑◆●❄ ❒❑❑❄◆❋❋ ■❑ ▲❑◆■❄ ◗✳❋■ ❁
▲❑◆■❄ ❋✳❁■■❋● ◗❁▲ ❉■ ◆▲❋ ❁❙ ❁■ ❁❒❑●❉❋❁▼❉❑■✎

✳❑◆■❄ ★❁■❁❉❋❒ ■❑◗ ❋❑❑❒❋❋▼●❙ ❒❋●❋❁▲❋▲ ❋✳❁■■❋●▲ ❄❒❑○
❁❒❑●❉❋❁▼❉❑■▲ ▼✳❁▼ ✥❙❉▼✶❑✳✳❋●● ◗❉▼✳❑◆▼ ❒❋○❋○❁❋❒❉■✣ ▼❑
❒❋●❋❁▲❋ ▼✳❋❉❒ ❑◗■ ❋✳❁■■❋●▲ ✈✶✳❉▲ ◆▲❋❄ ▼❑ ❋❁◆▲❋ ❁ ❋❒❁▲✳✉✎

✶✳❋ ■❋◗ ▲■▼✳ ✒✐✕✓ ❁❑❒ ✖✎✐✔ ■❑◗ ❋✳❋❋✳▲ ❄❑❒ ▲❒◆❑❉❑◆▲ ❉■▼❋❑❒◆❑▼▲
❋❁◆▲❋❄ ❁❙ ■❑■ ✳❑◆■❄ ★❁■❁❉❋❒ ✣❑○❒❁▼❉❁●❋ ✸✣★✤✇▲
✶✳❋■ ❁ ■❑■ ✳❑◆■❄ ★❁■❁❉❋❒ ✣❑○❒❁▼❉❁●❋ ✸✣★✤ ❉❑▼ ❋❁●●❋❄ ❉▼ ❒❒❑❄◆❋❋❄
❁ ▲❒◆❑❉❑◆▲ ❉■▼❋❒❒◆❑▼ ▼✳❁▼ ▼✳❋ ✳❑◆■❄ ★❁■❁❉❋❒ ◗❁▲ ■❑▼ ❋❑❒❒❋❋▼●❙
✳❁■❄●❉■❉✎ ✶✳❋ ❒❋▲◆●▼❉■❉ ❋❑❁▲✳ ◗❁▲ ❁ ✑✐☎ ❒❋❒❒❑❄◆❋❉❁●❋✎

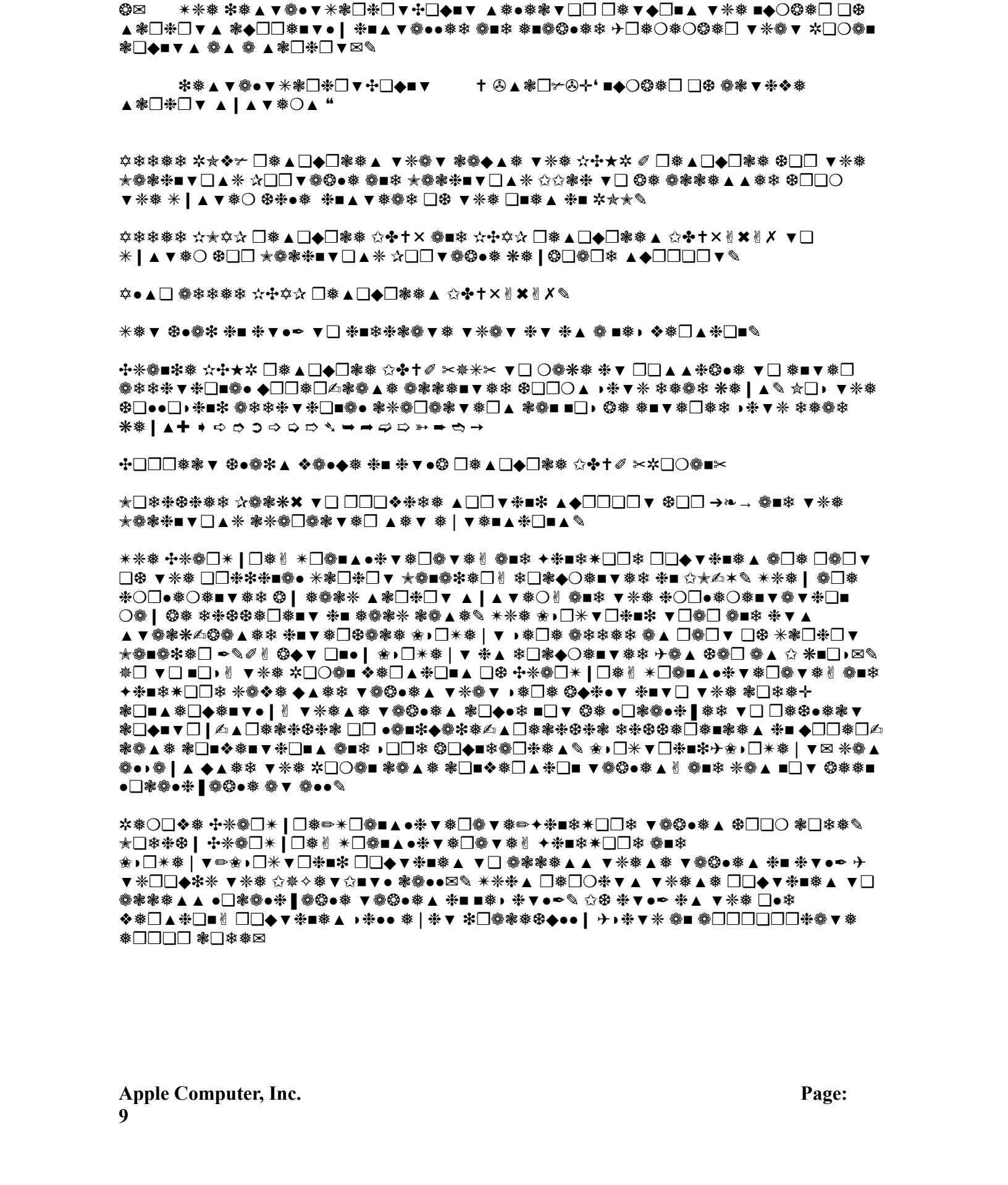
✳❙▲▼❋○ ✖✎✐✎✔ ❒❁▼❋✳❋❄ ❑◆▼ ▼✳❋ ✳❑◆■❄ ★❁■❁❉❋❒ ❉■ ❁●● ○❁❋✳❉■❋▲
❄❙❋❑▼ ▼✳❋ ★❁❋❉■▼❑▲✳ ☆❑❒▼❁❁●❋ ❁■❄ ▼✳❋ ★❁❋❉■▼❑▲✳ ☆☆❋❉ ◗✳❋❒❋ ❉▼
❄❙❒❋❋▼▲ ▼❑ ❁❉■❄ ▼✳❋ ✳❑◆■❄ ★❁■❁❉❋❒ ❉■ ✲☆★✎

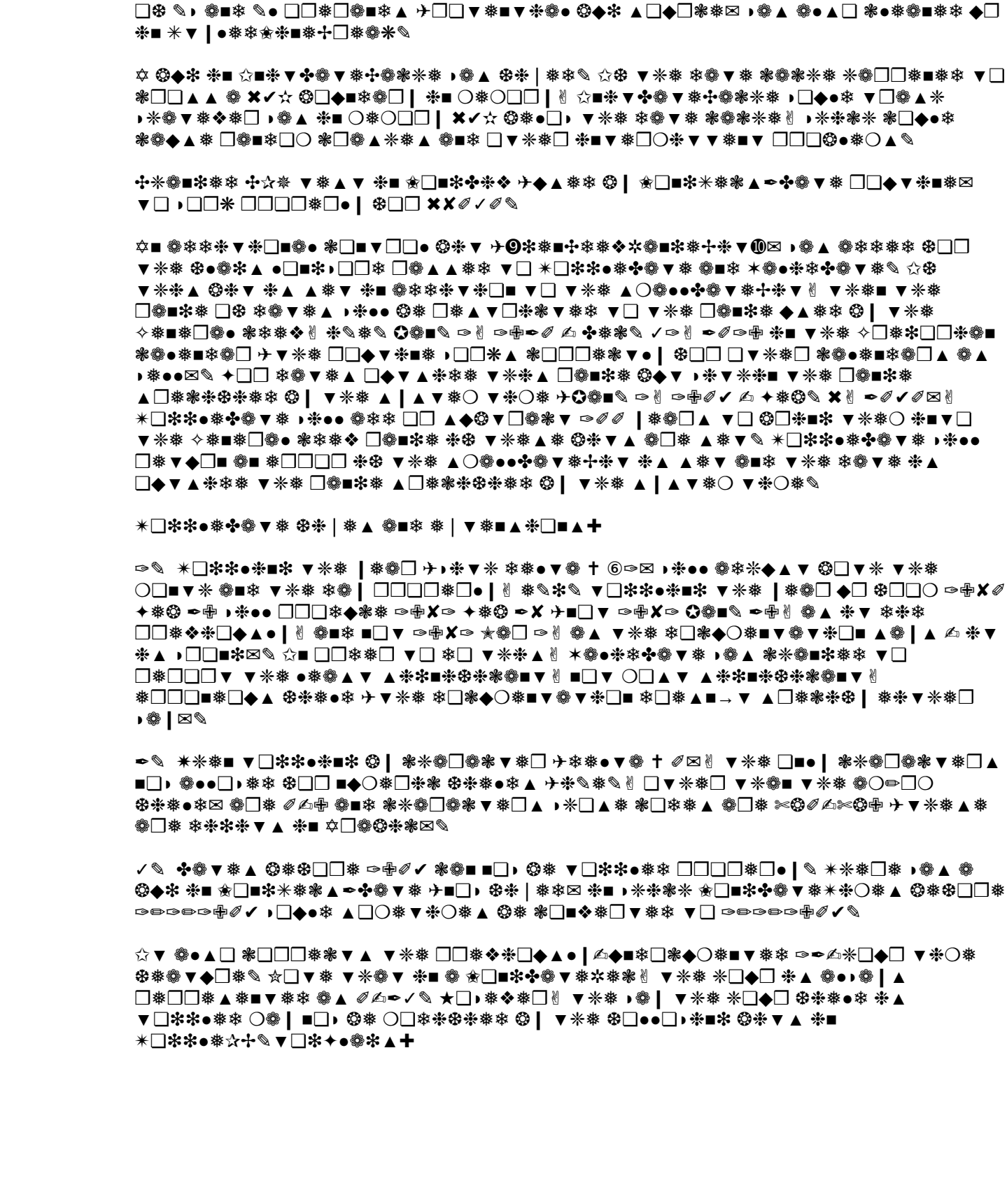
✳❋❑❉❒▼ ★❁■❁❉❋❒✑ ☆■▼❋❑■❁▼❉❑■❁● ❋▼❉●❉▼❉❋▲✑ ❁■❄ ☆❋❙❁❑❁❒❉
★❁■❄●❉■❉
✑✎ ☆❋❙ ✢❁❒▲ ✒✎✓✎✒
☆✢✡☆ ❒❋▲❑◆❑❋❋▲ ✖ ❁■❄ ✗ ◗❋❒❋ ❋❋●❋▼❋❄ ❁❒❑❑○ ▼✳❋ ☆❋❙ ❀❁❙❑◆▼
❁❉●❋✛ ▼✳❋▲❋ ❁❒❋ ▼✳❋ ✳❋❙❁❑❁❒❋ ●❁❙❑◆▼▲ ❁❑❒❒ ▼✳❋ ☆❑❒▼❁❁●❋✎ ✳❉■❋❋
▼✳❋▲❋ ❒❋▲❑◆❑❋❋▲ ❁❒❋ ❉■ ✲☆★ ❉■ ▼✳❋ ☆❑❒▼❁❁●❋✑ ▼✳❋❙ ❁❒❋ ■❑▼
■❋❋❋❋❋ ❉■ ▼✳❋ ☆❋❙ ❀❁❙❑◆▼ ❁❉●❋✎

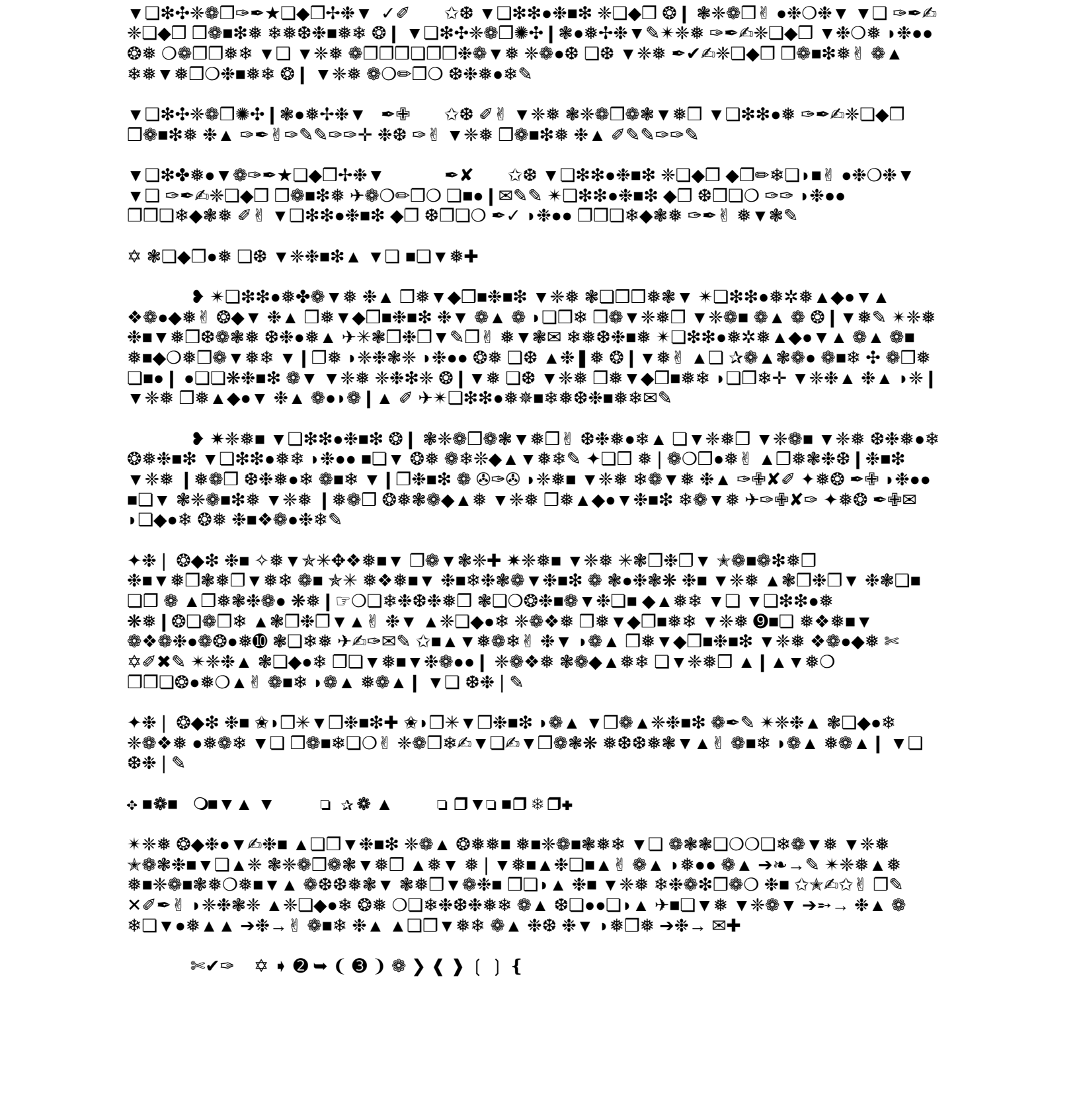
✒✎ ✧❋▲▼❁●▼ ▲❋●❋❋▼❑❒▲ ❁❑❒ ▼✳❋ ✳❋❒❉❒▼ ★❁■❁❉❋❒✎
✳◗❑ ■❋◗ ✧❋▲▼❁●▼ ▲❋●❋❋▼❑❒▲ ❒❋▼◆❒■ ✳❋❒❉❒▼ ★❁■❁❉❋❒
❉■❁❑❒❒○❁▼❉❑■✚

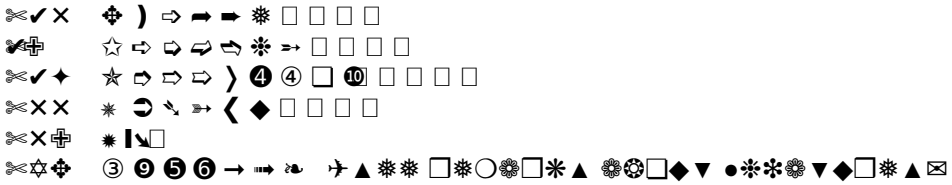
❁✉ ✶✳❋ ❉❋▲▼❁●▼✳❋❒❉❒▼★❉❒✶❋❒▲❉❑■ ▲❋●❋❋▼❑❒ ❒❋▼◆❒■▲ ▼✳❋
❋◆❒❒❋■▼ ❖❋❒▲❉❑■ ■◆○❂❋❒ ❁❑❒ ▼✳❋ ✳❋❒❉❒▼ ★❁■❁❉❋❒✎ ✶✳❉▲ ❖❋❒▲❉❑■
■◆○❂❋❒ ❉▲ ▼✳❋ ▲❁○❋ ❁▲ ❒❋▼◆❒■❋❄ ❂❙▼✳❋ ✳❋❒❉❒▼ ★❁■❁❉❋❒→▲
✧❋▼✥■❖❉❒❑■▲ ❄◆■❋▼❉❒■ ◗✳❋■ ❋❁●●❋❄ ◗❉▼✳ ▼✳❋ ▲○✶❋❒▲❉❑■ ❖❋❒❂✎ ✶✳❋
❖❋❒▲❉❑■ ■◆○❂❋❒ ❉▲ ❉■ ▼✳❋ ●❑◗ ◗❑❒❉✢ ▼✳❋ ✳❉❉✳ ◗❑❒❄✎ ✶✳❋ ○❁❉❑❒❒ ❁■❄
○❉■❑❒ ❖❋❒▲❉❑■ ■◆○❂❋❒▲ ❁❒❋ ❉■ ▼✳❋ ✳❉❉✳ ❁■❄ ●❑◗ ❙❙▼▲✑
❒❋▲❒❋❋▼❉❖❋●❙✌ ❑❄ ▼✳❉▲ ◗❑❒❄✎

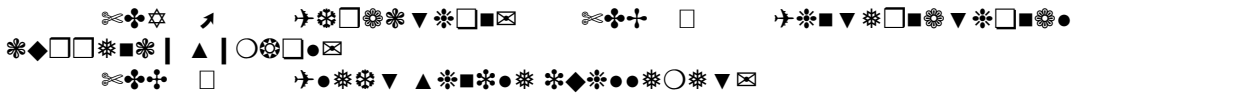
✢❋▲▼❁●▼✳❋❒❉❒▼★❉❒✶❋❒▲❉❑■ ✝✇▲❋❒❉✇✢‘ ✳❋❒❉❒▼ ★❁■❁❉❋❒
❖❋❒▲❉❑■ ■◆○❂❋❒ “

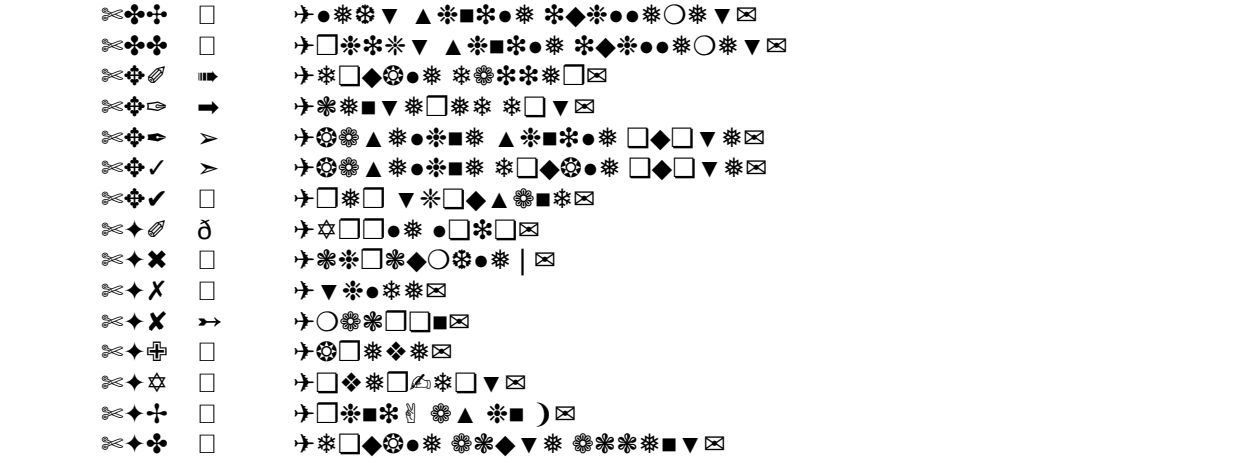


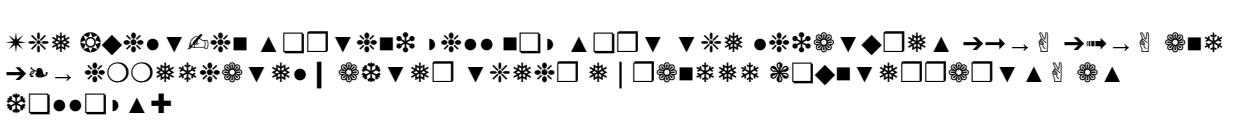


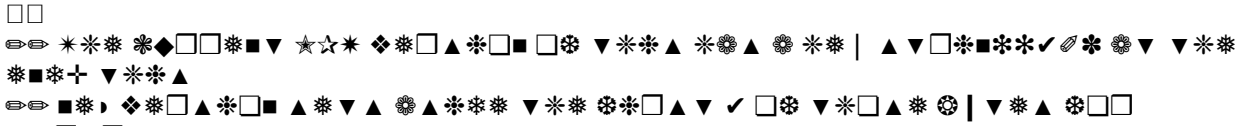


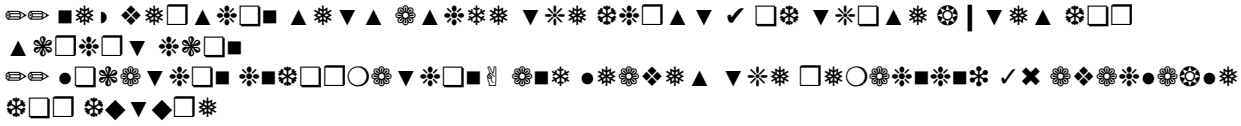


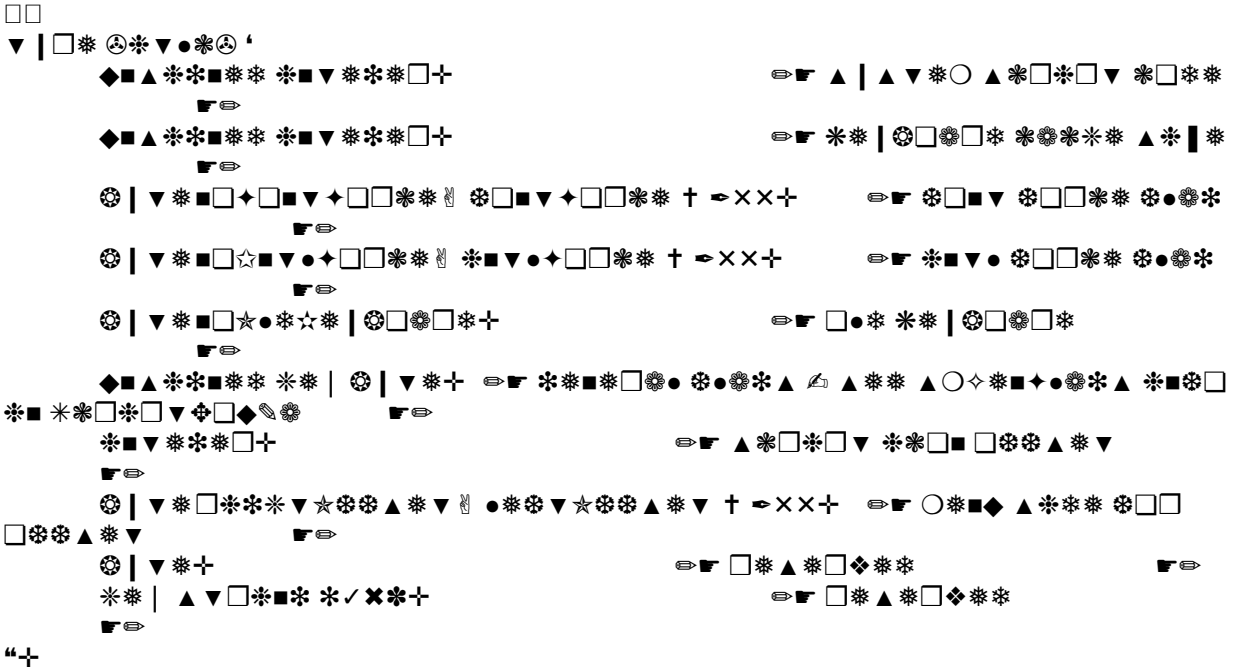


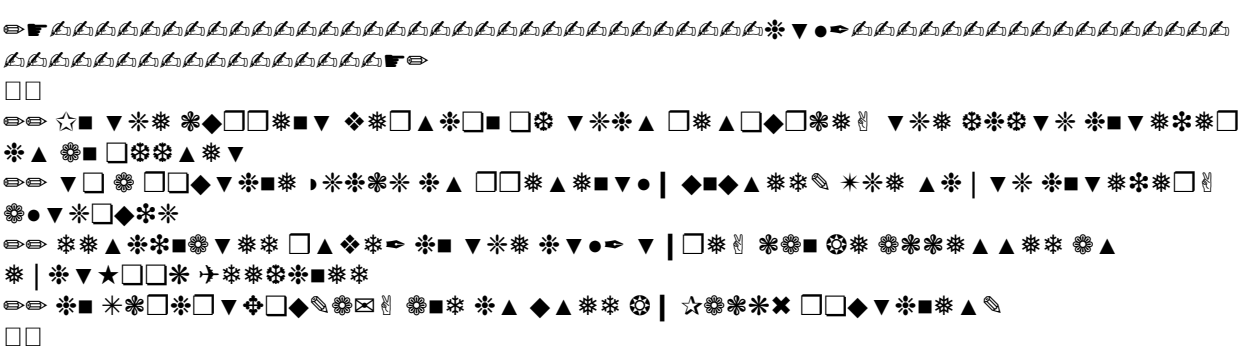


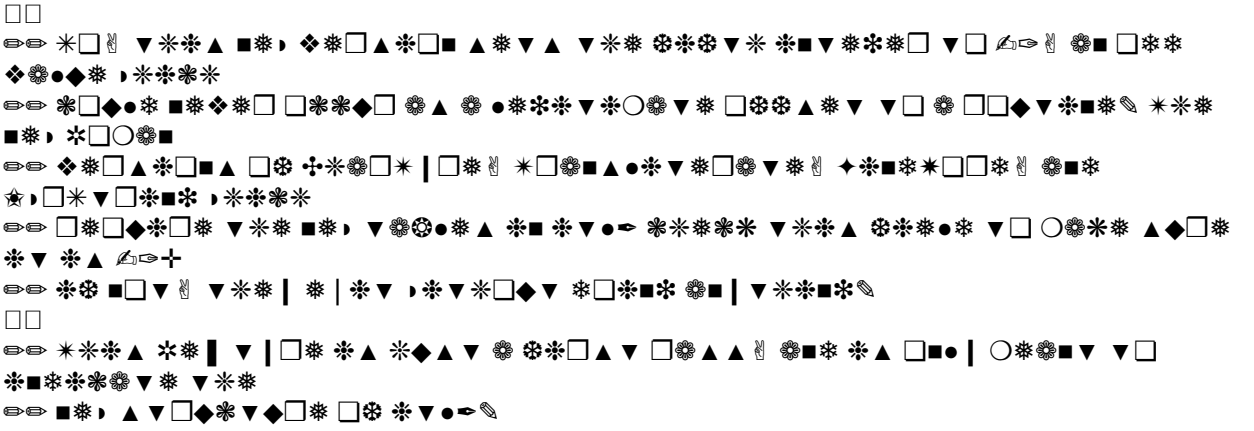
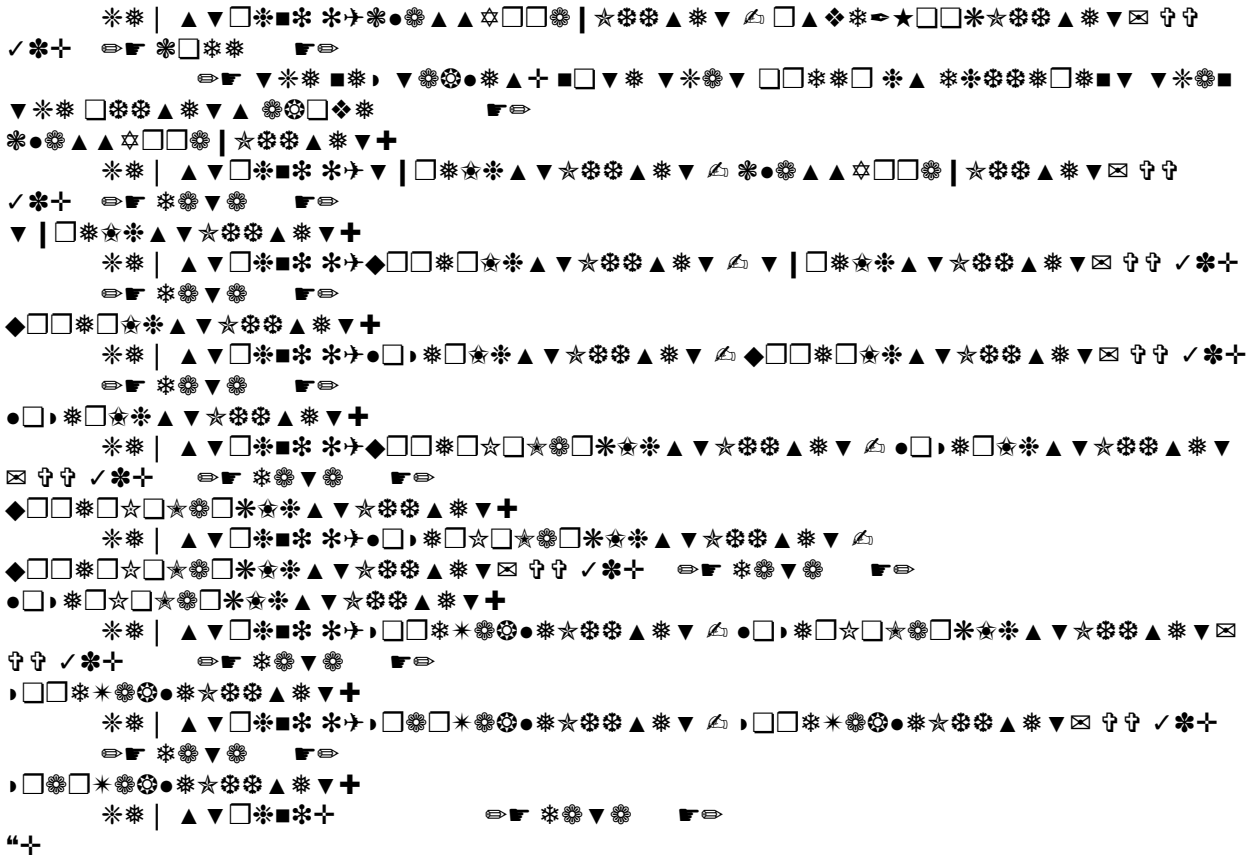








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