

# KLM Exercise

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- Given two drawing programs, System A and System B, compare the relative complexity of their interfaces with respect to the task of copying a rectangle from one part of the diagram to another.
- Method for System A:
  - 1.select “area-select” from the “Tools” menu
  - 2.select rectangle by clicking on two opposite corners of the rectangle
  - 3.select “Cut” from the “Edit” menu
  - 4.select destination of rectangle by clicking on the desired location of the left-upper-corner
  - 5.move rectangle to new location by selecting “Paste” from the “Edit” menu.

# KLM Exercise

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- Method for System B:

- 1.select rectangle by clicking somewhere on its surface
- 2.delete rectangle by pressing “delete” on keyboard
- 3.select destination of rectangle by clicking on the desired location of the left-hand-corner
- 4.move rectangle to new location by selecting “Copy” from the “Edit” menu.

# For System A

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- Select “area-select” from the “Tools” menu (assume: hand starts on mouse)

Action (in words)	Action	Time Taken
Point to “Tools” menu	MP [tools] B[left-down]	2.55
Point to “area-select”	MP [icon]	2.45
Select “area-select”	B[left-up]	0.1

# System A (cont'd)

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- Select rectangle by clicking on two opposite corners

Action (in words)	Action	Time Taken
Click on corner of rectangle	MP [corner] B[left-click]	2.55
Click on other corner of rectangle	MP [corner] B[left-click]	2.55

# System A (cont'd)

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- Select “Cut” from the “Edit” menu

Action (in words)	Action	Time Taken
Point to “Edit” menu	MP [edit] B[left-down]	2.55
Point to “cut”	MP [cut]	1.45
Select “cut”	B[left-up]	0.1
Wait for Cut	R(0.5)	0.5

# For System A

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- Move rectangle to new location

Action (in words)	Action	Time Taken
Point to new location of upper-left corner	MP [upper-left-corner]	1.45
Select new location	B[left-click]	0.1
Select to “Edit” menu	MP[Edit]B[left-down]	2.55
Select “Paste”	B[left-up]	0.20
Wait for Paste	R(0.5)	0.5
Total		19.6

# System B

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- Select Rectangle by clicking on it (assume hand starts on mouse)

Action (in words)	Action	Time Taken
Point to rectangle	MP [rectangle]	1.45
Select rectangle	B[left-click]	0.2

## System B (cont'd)

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- Delete rectangle by pressing “delete”

Action (in words)	Action	Time Taken
Hands to Keyboard	MH[keyboard]	1.75
Press “Delete”	MK[delete]	1.47



## System B (cont'd)

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- Select destination of rectangle by clicking on its top left-hand corner

Action (in words)	Action	Time Taken
Hands to mouse	MH[mouse]	1.75
Point to new location of upper-left corner	MP [upper-left-corner]	2.45
Select new location	B[left-click]	0.2

## System B (cont'd)

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- Move rectangle to new location

Action (in words)	Action	Time Taken
Select to "Edit" menu	MP[Edit]B[left-down]	2.55
Select "Copy"	B[left-up]	0.20
Wait for Copy	R(0.5)	0.5
Total		12.52