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| Merge\_Sort |
| - animation\_merge: Animation\_merge  - a: String[] |
| + Merge\_Sort(menuview: Menuview)  + Merge\_Sort(menuview: Menuview, src: String) |

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| Menu |
| + setJLable(label: String): void  + getLayout():BorderLayout  + getContentPane():Container  + add(comp: Component, constraints: Object)  + revalidate(): void  + repaint(): void |

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| Animation\_merge |
| + Animation\_merge(n: int, a: String[])  + setBackground(color: Color): void |

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| Selection\_Sort |
| - animation\_selec: Animation\_selec  - a: String[] |
| + Selection\_Sort(menuview: Menuview)  + Selection\_Sort(menuview: Menuview, src: String)  + settime(n: int, animation\_selec: Animation\_selec): void |

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| Menu |
| + setJLable(label: String): void  + getLayout():BorderLayout  + getContentPane():Container  + add(comp: Component, constraints: Object)  + revalidate(): void  + repaint(): void |

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| Animation\_selec |
| + Animation\_selec(n: int, a: String[])  + setBackground(color: Color): void  + settimeanima(n: int): void |

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| Shell\_Sort |
| - animation\_shell: Animation\_shell  - a: String[] |
| + Shell\_Sort(menuview: Menuview)  + Shell\_Sort(menuview: Menuview, src: String)  + settime(n: int, animation\_shell: Animation\_shell): void |

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| Menu |
| + setJLable(label: String): void  + getLayout():BorderLayout  + getContentPane():Container  + add(comp: Component, constraints: Object)  + revalidate(): void  + repaint(): void |

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| Animation\_shell |
| + Animation\_shell(n: int, a: String[])  + setBackground(color: Color): void  + settimeanima(n: int): void |

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| Controller |
| - menuview: Menuview  - selection\_Sort: Selection\_Sort  - merge\_Sort: Merge\_Sort  - shell\_Sort: Shell\_Sort |
| + Controller(menuview: Menuview)  + actionPerformed(e: ActionEvent): void  - checktext(n: String): int |

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| Menu |
| + setJLable(label: String): void  + getLayout():BorderLayout  + getContentPane():Container  + add(comp: Component, constraints: Object)  + revalidate(): void  + repaint(): void  + setTEST(test: String): void  + boxn: JTextField |