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| Name: | R1 calcHarmfulEffect |
| Description | Calculates and returns the harmful effect of a given residue , calculated by multiplying its decomposition time and the given factor depending on its origin |
| Inputs | Residue id |
| Outputs | Harmful effect value. |

Program requirements:

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| Name: | R2 searchResByName |
| Description | Returns a residue given its name, if it returns a null object, no residue was found. |
| Inputs | Residue name |
| Outputs | Instance of subclass Recyclable, biodegradable or inert |

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| Name: | R3 searchResById |
| Description | Returns a residue given its id, if it returns a null object, no residue was found. |
| Inputs | Residue id (id) |
| Outputs | Instance of subclass Recyclable, biodegradable or inert |

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| Name: | R4 addResidue |
| Description | Adds a residue considering its type, is also associated with a product, if the product does not exist, the user is asked for the product information. |
| Inputs | Name, type. Tip if inert; canCompost and description if biodegradable; material type id recyclable. |
| Outputs | Message if the residue was added successfully or not. |

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| Name: | R5 addProduct – Invoca una versión alternativa del método añadir residuo |
| Description | Adds a product and its residues |
| Inputs | Id, name, description, resNum(residues number) |
| Outputs | Message of error or success. |

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| Name: | R6 toStringNP (For products) |
| Description | Prints all the details from the registered products |
| Inputs | None |
| Outputs | All the details from the registered product. |

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| Name: | R7 isSuitable |
| Description | Prints true or false depending if the given residue is suitable or not, only for biodegradable or recyclable residues. For biodegradables it must be compostable and its decomposition time < 1year. For recyclable it must exist a description of how to use it. |
| Inputs | Residue Id |
| Outputs | True or false depending if the given residue is suitable or not. |

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| Name: | R8 toStringHR (For residues of given product) |
| Description | Prints the residues of a given product from the most to the less harmful. |
| Inputs | Product id |
| Outputs | All the residues form a given product from the most to the less harmful. |

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| Name: | R9 toStringNR (For residues) |
| Description | Prints all the residues with all the details classified by its type |
| Inputs | None |
| Outputs | All the residues with all the details classified by its type |