## Decoding of names files

Category - All example with precedence constraints (In each instance, all parts have precedence constraints):

* **p** - Category (**p**recedence constraints);
* **(Number)x** - In this library, contour nesting is designated "Nx", where N is the nesting degree, for example, "3x" means that the instance will contain at least one part with a hole inside parts with a hole;
* **j/k -** The criterion for the number of contours was developed to analyze the influence of the number of contours on the operation of algorithms:

1. 30 - 100 contours – j;
2. 100 – 250 contours – k.

* **\_(Number)** - instance number. If the postscript "a" is indicated, then about two times less points were created in the instance (For PCGTSP).

Category - Combined parts (In each instance there are parts with precedence constraints, as well as without a constraints):

* **с** – Category (**с**ombined parts);
* **j/k -** The criterion for the number of contours was developed to analyze the influence of the number of contours on the operation of algorithms:

1. 30 - 100 contours – j;
2. 100 – 250 contours – k.

* **(Number)x** - In this library, contour nesting is designated "Nx", where N is the nesting degree, for example, "3x" means that the instance will contain at least one part with a hole inside parts with a hole;
* **\_(Number)** - instance number. If the postscript "a" is indicated, then about two times less points were created in the instance (For PCGTSP).

Category - Cutting techniques (Contains instances for applying non-standard cutting techniques to them):

* **t** – Category (сutting **t**echniques)
* **j/k -** The criterion for the number of contours was developed to analyze the influence of the number of contours on the operation of algorithms:

1. 30 - 100 contours – j;
2. 100 – 250 contours – k.

* **(Number)x** - In this library, contour nesting is designated "Nx", where N is the nesting degree, for example, "3x" means that the instance will contain at least one part with a hole inside parts with a hole;
* **\_(Number)** - instance number. If the postscript "a" is indicated, then about two times less points were created in the instance (For PCGTSP).

Category - Exact algorithms (the number of clusters in an instance is in the range of 10 - 30):

* **e** – Category (**e**xact algorithms);
* **c/nc** - Convex outer contours/ Non-convex outer contours;
* **(Number)x** - In this library, contour nesting is designated "Nx", where N is the nesting degree, for example, "3x" means that the instance will contain at least one part with a hole inside parts with a hole;
* **\_(Number)** - instance number. If the postscript "a" is indicated, then about two times less points were created in the instance (For PCGTSP).

Category - No precedence constraints (In each instance, all parts do not have precedence constraints):

* **s** – Category (no precedence constraints (**s**olid));
* **c/nc** - Convex outer contours/ Non-convex outer contours;
* **j/k -** The criterion for the number of contours was developed to analyze the influence of the number of contours on the operation of algorithms:

1. 30 - 100 contours – j;
2. 100 – 250 contours – k.

* **\_(Number)** - instance number. If the postscript "a" is indicated, then about two times less points were created in the instance (For PCGTSP).