C, C++, DSA in depth

pair and tuple



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Agenda

1) paris 2) tuple

pair

Pair is a structure that provides for the ability to treat two objects as a single object.

The header for the pair library is < utility>.

Creating pair

```
pair <int, double> p1210, 3.13;
pair <int, string> P2;
P2= make_pair (1, "Bhopal")
 pair < int, string> P3 (P2);
pair <int, string> P4(2, "Pune");
```

Accossing pair elements

```
Cout << P1. first;
cout << P1. second;
```

```
templote Z clam X, clam X>

struct pair

{
    X first;

    y second;

};
```

pair methods

swap()

tuple

A tuple is an object that can store a number of elements.

The elements can be of different types.

The header for the pair library is <typle>

Creating tuple object

```
tuple <int, double, chary ti(1, 3.4, 'a');
tuple <int, double, chary tz;
tz = make_tuple(2,2.5, 'b');
```

Accessing tuple elements

coute get <07 (t1) << get <1> (t1) << get <2>(t1);

tuple methods

Swap()