## FINALS CYCLES JAVA

```
class Pair{
int e,w;
Pair(int a, int b){
e=a;
w=b;
}
}
class Result {
static ArrayList<Pair>[] arr = new ArrayList[26];
static ArrayList<Integer> cycles = new ArrayList<Integer>();
public static int find_max_weight(String graph) {
for(int i=0; i<26; i++) {
arr[i] = new ArrayList<Pair>();
}
String[] inputs = graph.split(" ");
for(int i=0; i<inputs.length; i+=2) {</pre>
int a = inputs[i].charAt(0)-'A';
int b = inputs[i].charAt(1)-'A';
int c = Integer.parseInt(inputs[i+1]);
arr[a].add(new Pair(b,c));
}
for(int i=0; i<26; i++) {
findCycles(0,"",i,i);
}
```

```
int max = Integer.MIN_VALUE;
for(int i : cycles) {
if(i>max) {
max = i;
}
}
if(cycles.size()==0) {
max = 0;
}
return max;
}
public static void findCycles(int weight, String visited, int c, int o) {
for(Pair i : arr[c]) {
if(i.e==o) {
cycles.add(weight+i.w);
}
else if(!visited.contains(i.e+"")) {
findCycles(weight+i.w,visited+i.e,i.e,o);
}
}
}
}
```