```
Allocating array of size 20
Allocating array of size 40
calling copy constructor of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 40
Allocating array of size 20
Freeng array of size 20
Freeng array of size 20
Freeng array of size 20
Allocating array of size 20
Allocating array of size 40
calling copy constructor of size 20
Allocating array of size 20
calling equal pperator size 40
Freeng array of size 20
Allocating array of size 40
calling equal pperator size 20
Freeng array of size 40
Allocating array of size 20
Freeng array of size 20
Freeng array of size 20
Freeng array of size 40
allocated space 140
Allocating array of size 0
Allocating array of size 0
Allocating array of size 0
Allocating array of size 0
Allocating array of size 0
Allocating array of size 0
Allocating array of size 0
Allocating array of size 0
Allocating array of size 0
Allocating array of size 0
Allocating array of size 20
calling equal pperator size 20
Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
```

Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Nothing freed. Array was taken by move/equal operator
Allocating array of size 20
Freeng array of size 20
allocated space 400
freed   space 200
swapping 0 to 9
calling copy constructor of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20
Freeng array of size 20
swapping 1 to 8
calling copy constructor of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20
Freeng array of size 20
swapping 2 to 7
calling copy constructor of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20
Freeng array of size 20
swapping 3 to 6
calling copy constructor of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20
Freeng array of size 20
swapping 4 to 5
calling copy constructor of size 20
Allocating array of size 20
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20

```
calling equal pperator size 20
Freeng array of size 20
Allocating array of size 20
Freeng array of size 20
allocated space 700
freed     space 500
Freeng array of size 20
Freeng array of size 20
Freeng array of size 20
Freeng array of size 20
Freeng array of size 20
Freeng array of size 20
Freeng array of size 20
Freeng array of size 20
Freeng array of size 20
Freeng array of size 20
allocated space 700
freed     space 700
Allocating array of size 1000
calling copy constructor of size 1000
Allocating array of size 1000
pass_by_value
Freeng array of size 1000
Freeng array of size 1000
allocated space 2700
freed     space 2700
Allocating array of size 1000
calling copy constructor of size 1000
Allocating array of size 1000
pass_by_value
Freeng array of size 1000
Freeng array of size 1000
allocated space 2000
freed     space 2000
Allocating array of size 2000
return_by_value
calling copy constructor of size 2000
Allocating array of size 2000
Freeng array of size 2000
Freeng array of size 2000
allocated space 4000
freed     space 4000
allocated space 0
freed     space 0
```