

Resizable Int Arrays – advanced

Modify the files you already developed for 301-A03 in order to add a couple of functions which will go a tad further with the idea of resizable int array.

Work to do

The following functions need to be implemented and tested;

```
void ria_resize ( ria_t** pthis, int newsize);
```

- Make sure the size is a strictly positive integer
- Make sure the pointers have valid values (non-NULL)
- If the size is the same as the dynamical array in ***pthis*, you have nothing to do
- Re-allocate an array of *newsize* integers and copy as many elements as possible from the old array into it
- Then deallocate the old integer array and make the *ptr* field of the data structure pointed to by **pthis* point to the newly allocated dynamical integer array
- Update accordingly the *size* field.

```
ria_t* ria_clone (ria_t* this);
```

- Return a newly allocated clone of the RIA structure pointed to by *this*.
- Make sure you do an in-depth copy rather than a shallow one.

Testing

- Update *tests.c* to test your functions and make sure that all the error cases are handled properly.