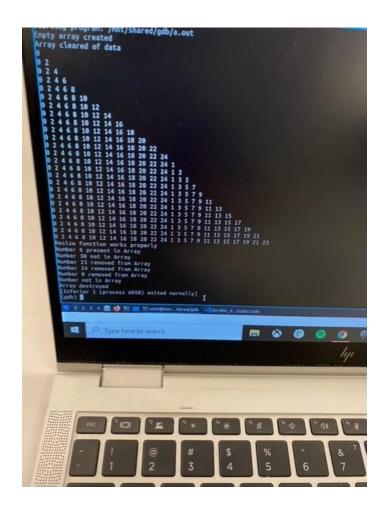
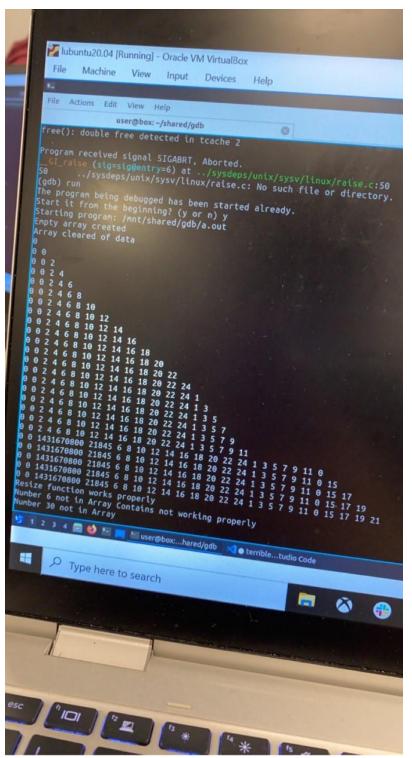
## Nicholas Cali

I pledge my honor that I have abided by the Stevens Honors System.

This shows that all errors were fixed using gdb. I will go into more detail later on in this document on where the errors were.





```
c terrible dynamic size_array_unsorted.c x

shared > gdb > C herrible dynamic size_array_unsorted.c > @ contains(int_array *.int)

for (unsigned int i = 0; i < arr.>count; ++ i)

printf("\d' : arr.>data[i]);

printf("\d' : arr.>count; ++ i)

for (i = 0; i < arr.>count; ++ i) // remove seni colon

if (arr.>data[i] = target_|||

for (i = 0; i < arr.>count; ++ i) // remove seni colon

if (arr.>data[i] = target_|||

return FMLSE;

arr.>capacity *= 2;
int new data = (int*)aalloc(sizeof(int) * arr.>capacity);

(as arr.>capacity *= 2;
int* new data = (int*)aalloc(sizeof(int) * arr.>capacity);

(be data[i] = arr.>data[i];

prec(arr.>data];

arr.>data = new data;

strongboom_hamdybb **Jumble_d_budo code

search

searc
```

The images above and to the right show a few of the errors. The first error we see is that there is an extra column of 0's in the triangle of values. This can be corrected in the method below.

```
void add(struct int_array* arr, int
payload) {
```

```
if ((arr->count == arr->capacity))
    resize(arr);
```

//add - 1 to fix leading column of 0's
arr->data[(++ arr->count )- 1] =
payload;

The arr->data[(++arr->count) - 1] = payload line is the issue. Using breakpoints and common knowledge the previous line was arr->data[++arr->count] = payload. This was adding the extra column of 0's. The '-1' moves the shifts to the right to allow for the correct format. The other issue in the images above is in the larger numbers showing. In resize, deallocating before changing the variable will allow for the bigger number to fix itself. This was also fixed with gdb breakpoints. The other issues were the extra else statement which returned false and the semi-colon after the for loop. Both a syntax error and unnecessary code hinders everything. The final two errors which were displayed in the terminal and discovered by breakpoints were in remove\_elem. One is a semicolon after an if statement and the other being the incorrect usage of '='. The correct usage should've been '==' and getting rid of the semi-colon. In total with the 6 errors fixed, the terminal then prints out the first image which is fully correct.