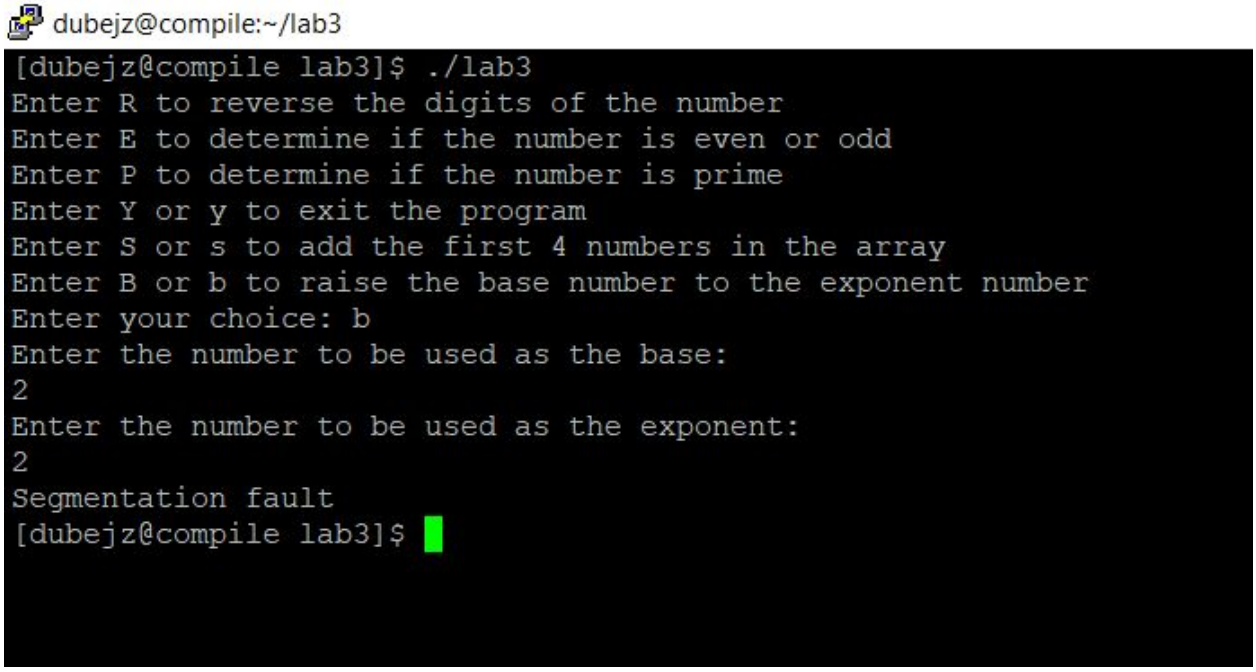
Lab 3 Screenshots -Jordan Dube

Task 1-a

dubejz@compile:~/lab3

```
[dubejz@compile lab3]$ ./lab3
Enter R to reverse the digits of the number
Enter E to determine if the number is even or odd
Enter P to determine if the number is prime
Enter Y or y to exit the program
Enter S or s to add the first 4 numbers in the array
Enter B or b to raise the base number to the exponent number
Enter your choice: s
Segmentation fault
[dubejz@compile lab3]$
```

Task 1-b



Task 2-a

```
Enter R to reverse the digits of the number
Enter E to determine if the number is even or odd
Enter P to determine if the number is prime
Enter Y or y to exit the program
Enter S or s to add the first 4 numbers in the array
Enter B or b to raise the base number to the exponent number
Enter your choice: s

Program received signal SIGSEGV, Segmentation fault.
0x0000000000400953 in sumall (a=0x7fffffffdd20, size=3) at lab3support.c:43
43                      sum += a[i];
Missing separate debuginfos, use: debuginfo-install glibc-2.17-317.el7.x86_64
(gdb) p *a@10
$1 = {0, 1, 2, 3, 4, 32767, 0, 1929379840, 0, 0}
(gdb) clear
No breakpoint at this line.
(gdb) p *a@5
$2 = {0, 1, 2, 3, 4}
(gdb)
```

Task 2-b

```
Enter R to reverse the digits of the number
Enter E to determine if the number is even or odd
Enter P to determine if the number is prime
Enter Y or y to exit the program
Enter S or s to add the first 4 numbers in the array
Enter B or b to raise the base number to the exponent number
Enter your choice: s

Program received signal SIGSEGV, Segmentation fault.
0x0000000000400953 in sumall (a=0x7fffffffdd20, size=3) at lab3support.c:43
43                      sum += a[i];
Missing separate debuginfos, use: debuginfo-install glibc-2.17-317.el7.x86_64
(gdb) p *a@10
$1 = {0, 1, 2, 3, 4, 32767, 0, 1929379840, 0, 0}
(gdb) clear
No breakpoint at this line.
(gdb) p *a@5
$2 = {0, 1, 2, 3, 4}
(gdb) p i
$3 = 1208
```

Task 3-a

```
int sumall(int a[], int size)
{
        int i, sum = 0;
        for (i = 0 ; i < size ; i++)
                sum += a[i];
        return sum;
}

int power(int base , int exponent)
{
        if(exponent ==0)
"lab3support.c" 56L, 759C
```

Task 3-b

dubejz@compile:~/lab3

```
[dubejz@compile lab3]$ gcc -g lab3main.c lab3support.c -o lab3
[dubejz@compile lab3]$ ./lab3
Enter R to reverse the digits of the number
Enter E to determine if the number is even or odd
Enter P to determine if the number is prime
Enter Y or y to exit the program
Enter S or s to add the first 3 numbers in the array
Enter B or b to raise the base number to the exponent number
Enter your choice: s
3
Enter R to reverse the digits of the number
Enter E to determine if the number is even or odd
Enter P to determine if the number is prime
Enter Y or y to exit the program
Enter S or s to add the first 3 numbers in the array
Enter B or b to raise the base number to the exponent number
Enter your choice: y
Exiting the program.

[dubejz@compile lab3]$
```