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LAB EXAM

Concepts of Programming & Operating System

1. Write a program to find the difference between the largest and smallest values in an array of integers.

Output: -

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2. Write a C program to create a parent process which terminates after the child finishes printing the contents of array.

```
GNU nano 6.4
include <stdio.h>
#include <unistd.h>
#include <sys/wait.h>
int main() {
    printf("Enter the number of elements: ");
scanf("%d", &n);
     int a[n];
     printf("Enter %d integers: ", n);
for(i=0; i<n; i++) {</pre>
         scanf("%d", &a[i]);
    pid_t pid = fork();
     if (pid < 0) {
         printf("Fork failed");
     } else if (pid = 0) {
         printf("Child process in execution\n");
for(i=0; i<n; i++) {</pre>
              printf("%d ", a[i]);
     } else {
         vait(NULL);
printf("\nchild process finised\n");
          printf("\nParent process in execution\n");
     return 0;
```

Output: -

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