Program

```c
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <unistd.h>

void print_odd_numbers(int arr[] , int size){
        for(int i = 0; i <size; i++){
                if(arr[i]%2 != 0)
                        printf("%d\t",arr[i]);
        }
        printf("\n");
}

void print_even_numbers(int arr[], int size){
        for(int i = 0; i < size; i++){
                if(arr[i]%2 == 0)
                        printf("%d\t",arr[i]);
        }
        printf("\n");
}

int main(){
        int size;
        printf("Enter size of array:");
        scanf("%d",&size);
        printf("Enter array\n");
        int arr[size];
        for(int i = 0; i < size; i++){
                scanf("%d",&arr[i]);
        }
        pid_t pid_odd, pid_even;
        pid_odd = fork();
        if(pid_odd == 0){
                print_odd_numbers(arr, size);
                exit(0);
        }
        pid_even = fork();
        if(pid_even == 0){
                print_even_numbers(arr, size);
                exit(0);
        }
        return 0;
}
```

1 Sample run of the program

```
s23a40@Server-2:~/blab$ nano exp13.c
s23a40@Server-2:~/blab$ gcc exp13.c
s23a40@Server-2:~/blab$ ./a.out
Enter size of array:5
Enter array
1 2 44 33 53
1       33      53
2       44
s23a40@Server-2:~/blab$
```