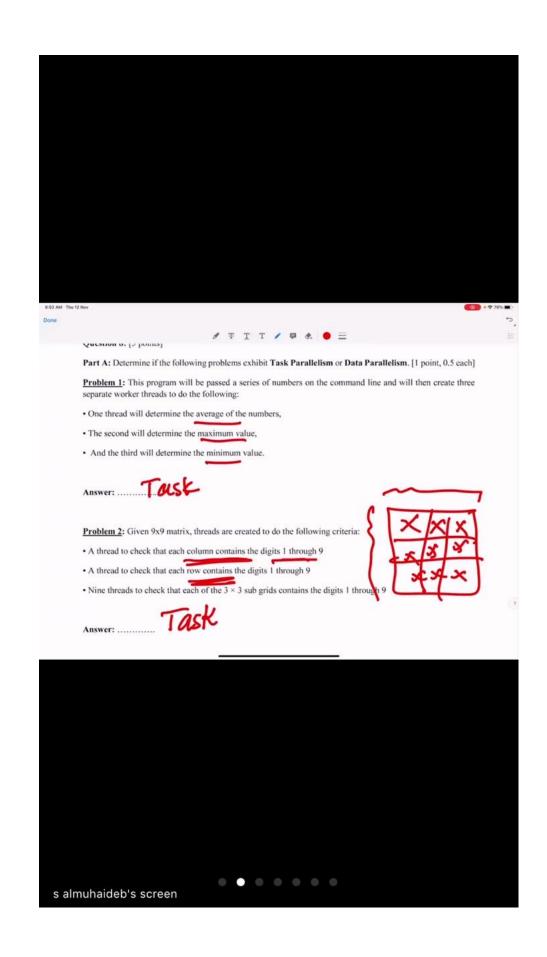


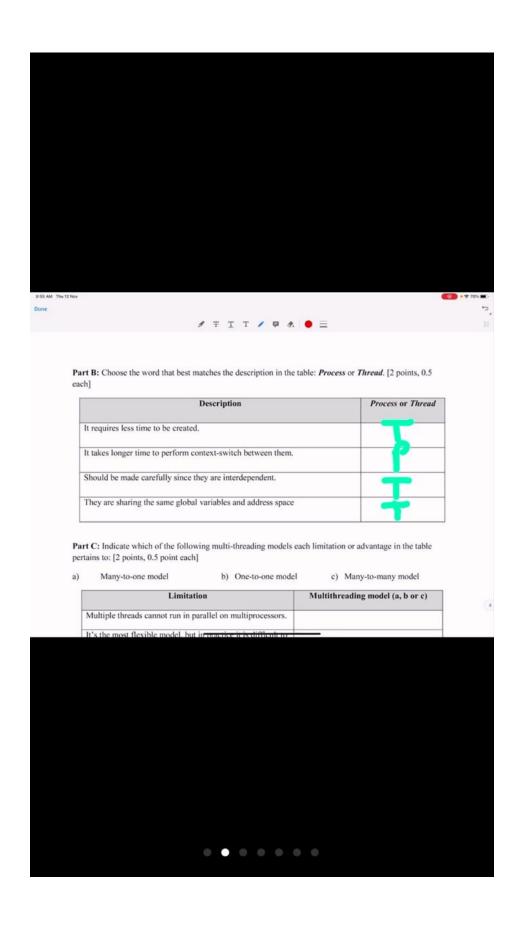
Part B: Given the code below and assuming fork() and execlp() never fail. Suppose the parent process id and child process id is 1500 and 1600, respectively. [2.5 points, 0.5 each]

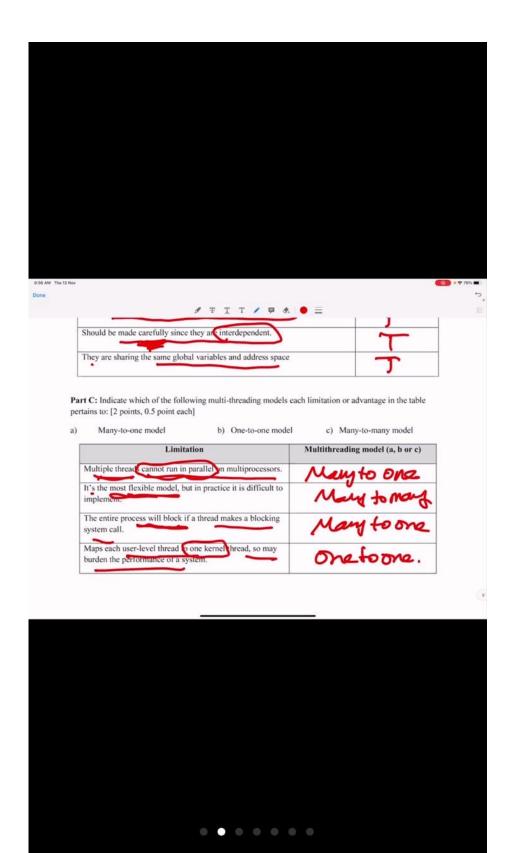
```
int main() {
  pid_t pid;
  pid = fork();
  int num = 5;
  if (pid == 0) {
    printf("%d", getppid()); Line A
    execlp("date", "date", NULL);
    num *= 6;
  } else if (pid > 0) {
    wait(NULL);
    num *= 2;
    printf ("%d", getpid()); Line B
  }
  printf ("%d", getpid()); Line C
  printf ("%d", num); Line D
  return 0;}
```

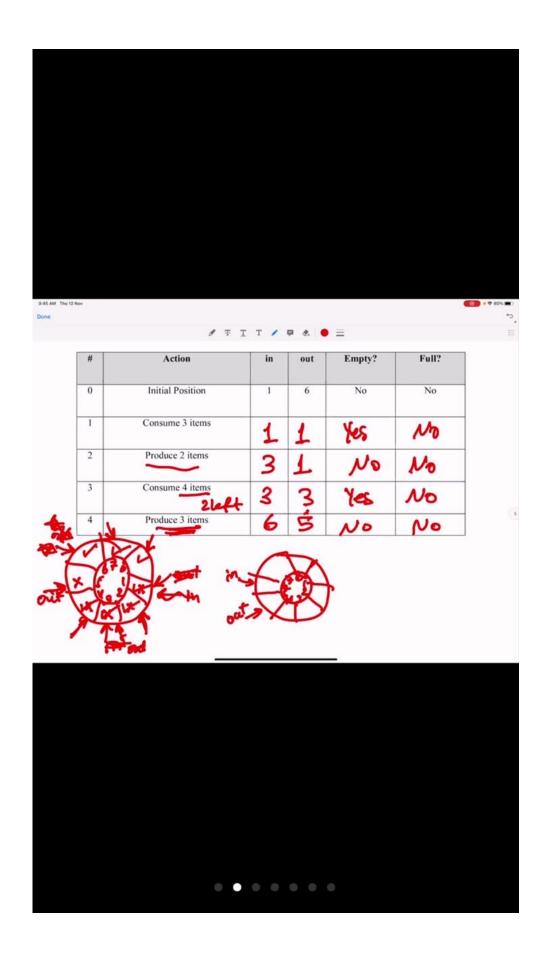
1. What value did the fork function return to the child process?

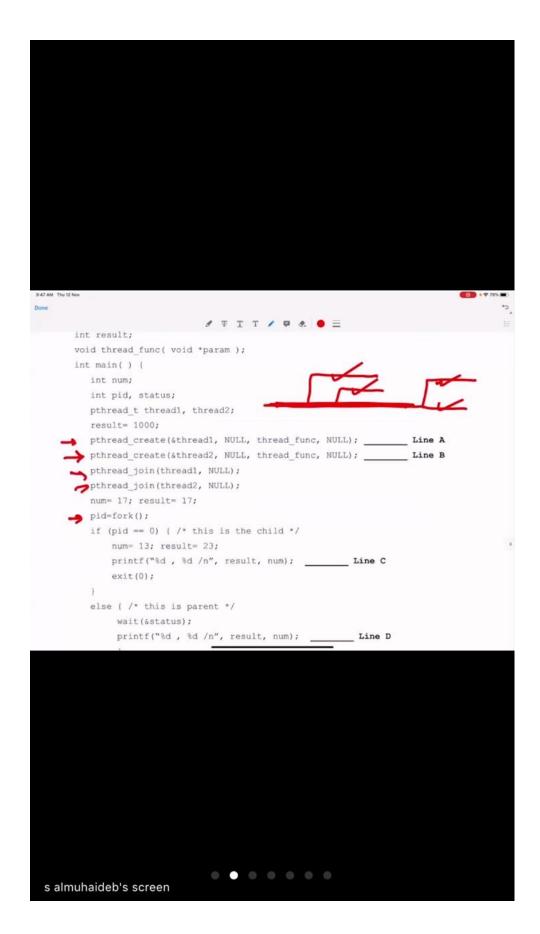












```
/ T T T / P & • =
> pthread_join(thread1, NULL);
 pthread_join(thread2, NULL);
   num= 17; result= 17;
pid=fork();
   if (pid == 0) { /* this is the child */
     num= 13; result= 23;
     printf("%d , %d /n", result, num); _____ Line C
      exit(0);
   else { /* this is parent */
       wait(&status);
      printf("%d , %d /n", result, num); _____ Line D
       }
   exit(0);
 void thread_func(void *param) {
   int tnum=(8;
     result++;
     printf("%d , %d /n", result, tnum*2); _____ Line E
     pthread exit(0);
     }
                       0 • 0 0 0 0 0
```

```
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                          / T T T / P & 🔵
             printf("%d , %d /n", result, num); _____ Line D
             }
        exit(0);
      void thread_func(void *param) {
         int tnum= 8;
          result++;
         printf("%d , %d /n", result, tnum*2); _____ Line E
          pthread_exit(0);
          }
                                      6
                             . . . . . . .
```

