% gcc217 testforkret.c -o testforkret

```
29409
int main(void)
   pid t iPid;
   printf("%d parent\n",
      (int)getPid());
   fflush (NULL);
   iPid = fork();
   if (iPid == 0)
      printf("%d child\n",
         (int)getPid());
   else
      printf("%d parent\n",
         (int)getPid());
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
```

```
29409
int main(void)
  pid t iPid;
   printf("%d parent\n",
      (int)getPid());
   fflush (NULL);
   iPid = fork();
   if (iPid == 0)
      printf("%d child\n",
         (int)getPid());
   else
      printf("%d parent\n",
         (int)getPid());
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
```

% ./testforkret

```
29409
int main(void)
   pid t iPid;
  printf("%d parent\n",
      (int)getPid());
   fflush (NULL);
   iPid = fork();
   if (iPid == 0)
      printf("%d child\n",
         (int)getPid());
   else
      printf("%d parent\n",
         (int)getPid());
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
```

Writes:

29409 parent

```
29409
int main(void)
   pid t iPid;
   printf("%d parent\n",
      (int)getPid());
   fflush(NULL);
   iPid = fork();
   if (iPid == 0)
      printf("%d child\n",
         (int)getPid());
   else
      printf("%d parent\n",
         (int)getPid());
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
```

```
29409
                                                  29410
int main (void)
                                                 int main(void)
   pid t iPid;
                                                     pid t iPid;
   printf("%d parent\n",
                                                     printf("%d parent\n",
      (int)getPid());
                                                        (int)getPid());
   fflush (NULL);
                                                     fflush (NULL);
   iPid = fork();
                                                     iPid = fork();
   if (iPid == 0)
                                                     if (iPid == 0)
      printf("%d child\n",
                                                        printf("%d child\n",
          (int)getPid());
                                                            (int)getPid());
                                          concurrent
   else
                                                     else
      printf("%d parent\n",
                                                        printf("%d parent\n",
         (int)getPid());
                                                            (int)getPid());
   printf("%d parent and child\n",
                                                     printf("%d parent and child\n",
      (int)getPid());
                                                        (int)getPid());
   return 0;
                                                     return 0;
```

```
29409
                                                 29410
int main (void)
                                                 int main(void)
   pid t iPid;
                                                    pid t iPid;
   printf("%d parent\n",
                                                    printf("%d parent\n",
      (int)getPid()); 29410
                                                        (int)getPid());
   fflush (NULL);
                                                    fflush (NULL);
   iPid = fork();
                                                    iPid = fork();
   if (iPid == 0)
                                                    if (iPid == 0)
      printf("%d child\n",
                                                       printf("%d child\n",
         (int)getPid());
                                                           (int)getPid());
                                          concurrent
   else
                                                    else
      printf("%d parent\n",
                                                        printf("%d parent\n",
         (int)getPid());
                                                           (int)getPid());
   printf("%d parent and child\n",
                                                    printf("%d parent and child\n",
      (int)getPid());
                                                        (int)getPid());
   return 0;
                                                    return 0;
```

```
29409
                                                 29410
int main (void)
                                                 int main(void)
   pid t iPid;
                                                    pid t iPid;
   printf("%d parent\n",
                                                    printf("%d parent\n",
      (int)getPid()); 29410
                                                        (int)getPid());
   fflush (NULL);
                                                    fflush (NULL);
   iPid = fork();
                                                    iPid = fork();
   if (iPid == 0)
                                                    if (iPid == 0)
      printf("%d child\n",
                                                       printf("%d child\n",
         (int)getPid());
                                                           (int)getPid());
                                          concurrent
   else
                                                    else
      printf("%d parent\n",
                                                        printf("%d parent\n",
         (int)getPid());
                                                           (int)getPid());
   printf("%d parent and child\n",
                                                    printf("%d parent and child\n",
      (int)getPid());
                                                        (int)getPid());
   return 0;
                                                    return 0;
```

% ./testforkret

```
29409
                                                 29410
int main (void)
                                                 int main(void)
   pid t iPid;
                                                    pid t iPid;
   printf("%d parent\n",
                                                    printf("%d parent\n",
      (int)getPid()); 29410
                                                        (int)getPid());
   fflush (NULL);
                                                    fflush (NULL);
   iPid = fork();
                                                    iPid = fork();
   if (iPid == 0)
                                                    if (iPid == 0)
      printf("%d child\n",
                                                        printf("%d child\n",
         (int)getPid());
                                                           (int)getPid());
                                          concurrent
   else
                                                    else
      printf("%d parent\n",
                                                        printf("%d parent\n",
         (int)getPid());
                                                           (int)getPid());
   printf("%d parent and child\n",
                                                    printf("%d parent and child\n",
      (int)getPid());
                                                        (int)getPid());
   return 0;
                                                    return 0;
```

Writes:

29409 parent

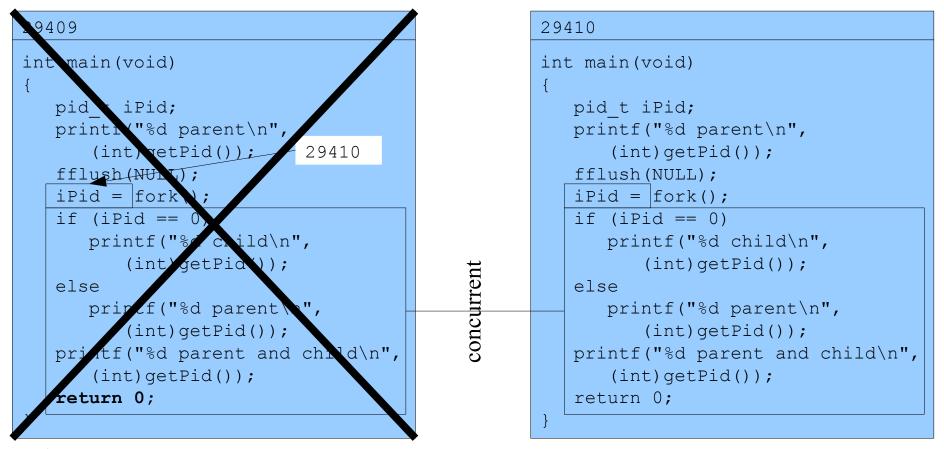
% ./testforkret

```
29409
                                                 29410
int main (void)
                                                 int main(void)
   pid t iPid;
                                                    pid t iPid;
   printf("%d parent\n",
                                                    printf("%d parent\n",
      (int)getPid()); 29410
                                                        (int)getPid());
   fflush (NULL);
                                                    fflush (NULL);
   iPid = fork();
                                                    iPid = fork();
   if (iPid == 0)
                                                    if (iPid == 0)
      printf("%d child\n",
                                                       printf("%d child\n",
         (int)getPid());
                                                           (int)getPid());
                                          concurrent
   else
                                                    else
      printf("%d parent\n",
                                                        printf("%d parent\n",
         (int)getPid());
                                                           (int)getPid());
   printf("%d parent and child\n",
                                                    printf("%d parent and child\n",
      (int)getPid());
                                                        (int)getPid());
   return 0;
                                                    return 0;
```

Writes:

29409 parent and child

% ./testforkret



Writes:

29409 parent and child

```
29410
int main(void)
   pid t iPid;
   printf("%d parent\n",
      (int)getPid());
   fflush (NULL);
   iPid = fork();
   if (iPid == 0)
      printf("%d child\n",
         (int)getPid());
   else
      printf("%d parent\n",
         (int)getPid());
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
```

```
29410
int main(void)
   pid t iPid;
   printf("%d parent\n",
      (int)getPid());
   fflush (NULL);
   iPid = fork();
   if (iPid == 0)
      printf("%d child\n",
         (int)getPid());
   else
      printf("%d parent\n",
         (int)getPid());
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
```

% ./testforkret

```
29410
int main(void)
   pid t iPid;
   printf("%d parent\n",
      (int)getPid());
   fflush (NULL);
   iPid fork();
   if (iPid == 0)
     printf("%d child\n",
         (int)getPid());
   else
      printf("%d parent\n",
         (int)getPid());
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
```

Writes:

29410 child

% ./testforkret

```
29410
int main(void)
   pid t iPid;
   printf("%d parent\n",
      (int)getPid());
   fflush (NULL);
   iPid fork();
   if (iPid == 0)
      printf("%d child\n",
         (int)getPid());
   else
      printf("%d parent\n",
         (int)getPid());
   printf("%d parent and child\n",
      (int)getPid());
   return 0;
```

Writes:

29410 parent and child

```
9410
int main(void)
         iPid;
          ("%d parent\n",
      (int) retPid());
   fflush (NU)
   iPid = fork
   if (iPid == 0
      printf("%
                 child\n",
   else
           cf("%d parent
          (int)getPid());
       tf("%d parent and ch
      (int)getPid());
   return 0;
```

%