

Frame Number

#4 main ()

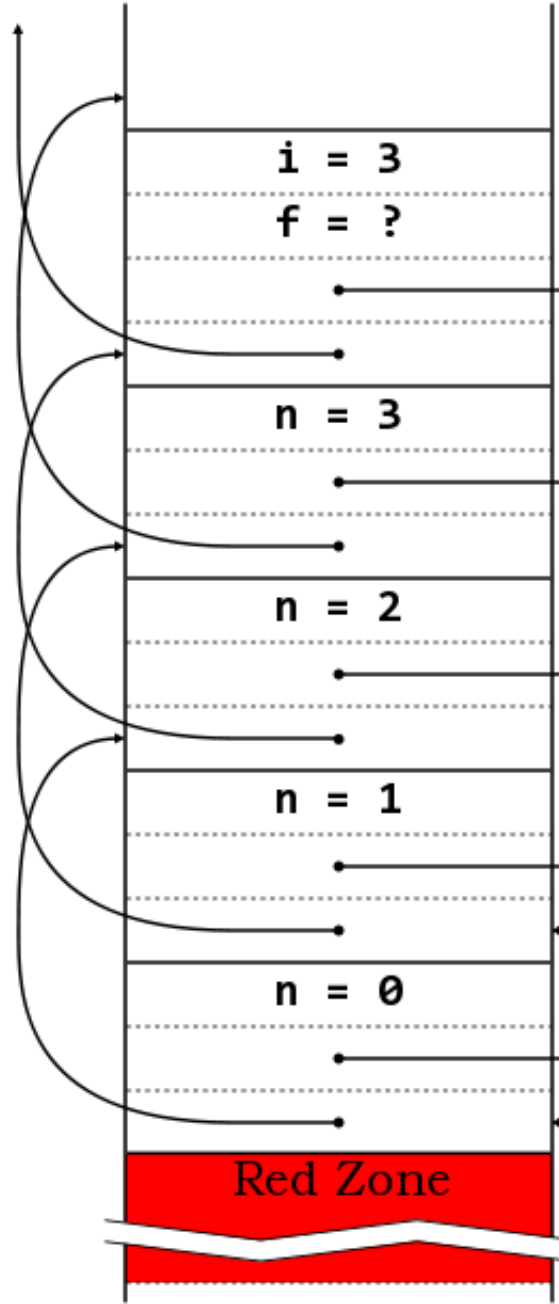
#3 fact (3)

#2 fact (2)

#1 fact (1)

#0 fact (0)

#-1



```
int fact( int n )
{
  if( 0 == n ) {
    return 1;
  }
  else {
    return n * fact( n - 1 );
  }
}
```

```
main()
{
  int i;
  for( i = 0 ; i < 10 ; i++ ) {
    int f = fact( i );
    printf( "%d! = %d\n", i, f );
  }
}
```

FP

SP



Direction of stack growth