UCLA

CS 31: Midterm Review

Howard A. Stahl

isPalindrome Code

```
bool isPalindrome( string s )
{
   bool result = true;
   size_t begin = 0;
   size_t end = s.size( ) - 1;
   while( begin != end )
   {
      if (s[begin] != s[end] )
      {
         result = false;
         break;
      }
      begin++; end--;
   }
   return( result );
}
```

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S="ROTATOR"

isPalindrome Code

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begin ↓

S="ROTATOR"

↑ end

isPalindrome Code

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S="ROTATOR"

↑ end

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S="ROTATOR"

↑ end

isPalindrome Code

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         break;
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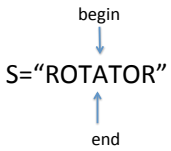
}
```



isPalindrome Code

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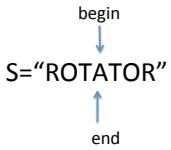
      {
         result = false;
         break;
      }
      begin++; end--;
   }
   return( result );
}
```



returns `true`

isPalindrome Code

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   bool result = true;
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   size_t end = s.size( ) - 1;
   while( begin != end )
   {
      if (s[begin] != s[end] )
      {
         result = false;
         break;
      }
      begin++; end--;
   }
   return( result );
}
```

S="DEED"

isPalindrome Code

```
bool isPalindrome( string s )
{
   bool result = true;
   size_t begin = 0;
   size_t end = s.size( ) - 1;
   while( begin != end )
   {
      if (s[begin] != s[end] )
      {
         result = false;
         break;
      }
      begin++; end--;
   }
   return( result );
}
```

begin

S="DEED"

end

isPalindrome Code

```
bool isPalindrome( string s )
{
   bool result = true;
   size_t begin = 0;
   size_t end = s.size( ) - 1;
   while( begin != end )
   {
      if (s[begin] != s[end] )
      {
         result = false;
         break;
      }
      begin++; end--;
   }
   return( result );
}
```

begin

S="DEED"

end

isPalindrome Code

```
bool isPalindrome( string s )
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   bool result = true;
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   size_t end = s.size( ) - 1;
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   {
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      {
         result = false;
         break;
      }
      begin++; end--;
   }
   return( result );
}
```

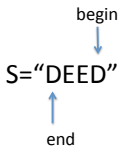
begin

S="DEED"

end

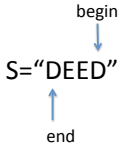
isPalindrome Code

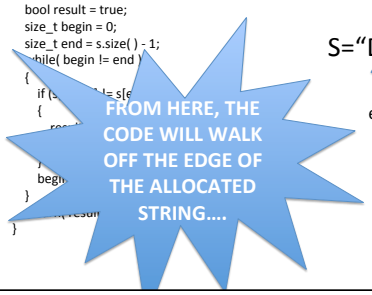
```
bool isPalindrome( string s )
{
   bool result = true;
   size_t begin = 0;
   size_t end = s.size( ) - 1;
   while( begin != end )
   {
      if (s[begin] != s[end] )
      {
         result = false;
         break;
      }
      begin++; end--;
   }
   return( result );
}
```



isPalindrome Code

```
bool isPalindrome( string s )
{
   bool result = true;
   size_t begin = 0;
   size_t end = s.size( ) - 1;
   while( begin != end )
   {
      if (s
      {
      }
      begi
   }
}
```





isPalindrome Code Corrected

```
bool isPalindrome( string s )
{
   bool result = true;
   size_t begin = 0;
   size_t end = s.size( ) - 1;
   while( begin < end )
   {
      if (s[begin] != s[end] )
      {
         result = false;
         break;
      }
      begin++; end--;
   }
   return( result );
}
```