```
; Line 627
	xor	ebx, ebx
; Line 628
	test	edi, edi
	mov	DWORD PTR _FilesLEN$[esp+4168], edx
	mov	DWORD PTR _NumberOfFiles$[esp+4164], ecx
	mov	DWORD PTR _i$[esp+4164], ebx
	jbe	$L1870
$L1873:
; Line 630
	push	ebp
	push	1
	lea	eax, DWORD PTR _workbyte$[esp+4172]
	push	1
	push	eax
	call	_fread
; Line 631
	mov	cl, BYTE PTR _workbyte$[esp+4180]
	add	esp, 16					; 00000010H
	cmp	cl, 10				; 0000000aH
	jne	SHORT $L1460
	inc	DWORD PTR _NumberOfLines$[esp+4164]
$L1460:
; Line 632
	cmp	DWORD PTR ___mb_cur_max, 1
	jle	SHORT $L1792
	movsx	ecx, cl
	push	259				; 00000103H
	push	ecx
	call	__isctype
	mov	cl, BYTE PTR _workbyte$[esp+4172]
	add	esp, 8
	jmp	SHORT $L1793
$L1792:
	mov	eax, DWORD PTR __pctype
	movsx	edx, cl
	movzx	eax, WORD PTR [eax+edx*2]
	and	eax, 259			; 00000103H
$L1793:
	test	eax, eax
	je	SHORT $L1461
; Line 634
	cmp	ebx, 31					; 0000001fH
	jae	SHORT $L1462
; Line 635
	movsx	ecx, cl
	push	ecx
	call	_tolower
```

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```
        add     esp, 4
        mov     BYTE PTR _wrd$[esp+ebx+4164], al
$L1462:
; Line 636
        inc     ebx
; Line 638
        jmp     $L1458
$L1461:
; Line 640
        cmp     ebx, 1
        jb      $L1496
        cmp     ebx, 31                                 ; 0000001fH
        ja      $L1496
; Line 645
        mov     edi, DWORD PTR _WORDcount$[esp+4164]
        mov     ebp, DWORD PTR _WORDcount$[esp+4168]
        add     edi, 1
        adc     ebp, 0
        mov     eax, edi
        and     eax, 131071                         ; 0001ffffH
        xor     ecx, ecx
        or      eax, ecx
        mov     BYTE PTR _wrd$[esp+ebx+4164], 0
        mov     DWORD PTR _WORDcount$[esp+4164], edi
        mov     DWORD PTR _WORDcount$[esp+4168], ebp
        jne     $L1864
; Line 648
        mov     edx, DWORD PTR _Melnitchka$[esp+4164]
        inc     edx
; Line 649
        and     edx, -2147483645                    ; 80000003H
        jns     SHORT $L1880
        dec     edx
        or      edx, -4                                 ; fffffffcH
        inc     edx
$L1880:
        mov     DWORD PTR _Melnitchka$[esp+4164], edx
; Line 650
        jne     SHORT $L1863
        mov     ecx, DWORD PTR _i$[esp+4164]
        xor     eax, eax
        push    eax
        mov     eax, DWORD PTR _size_inLINE$[esp+4168]
        xor     edx, edx
        shld    edx, ecx, 6
        push    eax
        shl     ecx, 6
        push    edx
```

**Leprechaun.asm_main-cycle.txt**; an amateurish programming étude after all - I should like to see(sanmayce@sanmayce.com) some code from a professionalist; 2/8
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```
        push    ecx
        call    __alldiv
        mov     esi, DWORD PTR _WORDcountDistinct$[esp+4164]
        push    edx
        push    eax
        push    10                                  ; 0000000aH
        lea     ecx, DWORD PTR _llTOaDigits2$[esp+4176]
        push    ecx
        push    0
        push    esi
        call    __ui64toaKAZEcomma
        add     esp, 16                             ; 00000010H
        push    eax
        push    10                                  ; 0000000aH
        lea     edx, DWORD PTR _llTOaDigits$[esp+4180]
        push    edx
        push    ebp
        push    edi
        call    __ui64toaKAZEcomma
        add     esp, 16                             ; 00000010H
        push    eax
        push    OFFSET FLAT:$SG1469
        call    _printf
        add     esp, 20                             ; 00000014H
        jmp     SHORT $L1466
$L1863:
        mov     esi, DWORD PTR _WORDcountDistinct$[esp+4164]
$L1466:
; Line 651
        mov     eax, DWORD PTR _Melnitchka$[esp+4164]
        cmp     eax, 1
        jne     SHORT $L1470
        mov     ecx, DWORD PTR _i$[esp+4164]
        xor     eax, eax
        push    eax
        mov     eax, DWORD PTR _size_inLINE$[esp+4168]
        xor     edx, edx
        shld    edx, ecx, 6
        push    eax
        shl     ecx, 6
        push    edx
        push    ecx
        call    __alldiv
        push    edx
        push    eax
        push    10                                  ; 0000000aH
        lea     ecx, DWORD PTR _llTOaDigits2$[esp+4176]
        push    ecx
```

```
        push    0
        push    esi
        call    __ui64toaKAZEcomma
        add     esp, 16                                 ; 00000010H
        push    eax
        push    10                                      ; 0000000aH
        lea     edx, DWORD PTR _llTOaDigits$[esp+4180]
        push    edx
        push    ebp
        push    edi
        call    __ui64toaKAZEcomma
        add     esp, 16                                 ; 00000010H
        push    eax
        push    OFFSET FLAT:$SG1473
; Line 652
        jmp     $L1886
$L1470:
        cmp     eax, 2
        jne     SHORT $L1474
        mov     ecx, DWORD PTR _i$[esp+4164]
        xor     eax, eax
        push    eax
        mov     eax, DWORD PTR _size_inLINE$[esp+4168]
        xor     edx, edx
        shld    edx, ecx, 6
        push    eax
        shl     ecx, 6
        push    edx
        push    ecx
        call    __alldiv
        push    edx
        push    eax
        push    10                                      ; 0000000aH
        lea     ecx, DWORD PTR _llTOaDigits2$[esp+4176]
        push    ecx
        push    0
        push    esi
        call    __ui64toaKAZEcomma
        add     esp, 16                                 ; 00000010H
        push    eax
        push    10                                      ; 0000000aH
        lea     edx, DWORD PTR _llTOaDigits$[esp+4180]
        push    edx
        push    ebp
        push    edi
        call    __ui64toaKAZEcomma
        add     esp, 16                                 ; 00000010H
        push    eax
```

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```
        push   OFFSET FLAT:$SG1477
; Line 653
        jmp    SHORT $L1886
$L1474:
        cmp    eax, 3
        jne    SHORT $L1864
        mov    ecx, DWORD PTR _i$[esp+4164]
        xor    eax, eax
        push   eax
        mov    eax, DWORD PTR _size_inLINE$[esp+4168]
        xor    edx, edx
        shld   edx, ecx, 6
        push   eax
        shl    ecx, 6
        push   edx
        push   ecx
        call   __alldiv
        push   edx
        push   eax
        push   10                                   ; 0000000aH
        lea    ecx, DWORD PTR _llTOaDigits2$[esp+4176]
        push   ecx
        push   0
        push   esi
        call   __ui64toaKAZEcomma
        add    esp, 16                                      ; 00000010H
        push   eax
        push   10                                   ; 0000000aH
        lea    edx, DWORD PTR _llTOaDigits$[esp+4180]
        push   edx
        push   ebp
        push   edi
        call   __ui64toaKAZEcomma
        add    esp, 16                                      ; 00000010H
        push   eax
        push   OFFSET FLAT:$SG1481
$L1886:
        call   _printf
        add    esp, 20                                      ; 00000014H
$L1864:
; Line 655
        movsx  eax, BYTE PTR _wrd$[esp+4164]
; Line 658
        mov    ebp, DWORD PTR _OffsetsInBuffer$[esp+ebx*4+4160]
        mov    edi, DWORD PTR _pointerflush$[esp+4164]
        mov    ecx, eax
        imul   ecx, 31                                      ; 0000001fH
        add    eax, -97                             ; ffffff9fH
```

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```
	imul	eax, DWORD PTR _WHOLEletter_BufferSize$[esp+4164]
	lea	ecx, DWORD PTR [ecx+ebx-3008]
; Line 662
	lea	ecx, DWORD PTR _bufend$[esp+ecx*4+4164]
	add	ebp, eax
	mov	DWORD PTR tv1826[esp+4164], ecx
	add	ebp, edi
	mov	edi, DWORD PTR [ecx]
	mov	ecx, DWORD PTR _GRMBLhill$[esp+ebx*4+4164]
	imul	ecx, DWORD PTR _LetterBuffer$[esp+4164]
	mov	eax, 138547333				; 08421085H
	mul	ecx
	sub	ecx, edx
	shr	ecx, 1
	add	ecx, edx
	mov	edx, edi
	sub	edx, ebp
	shr	ecx, 4
	lea	eax, DWORD PTR [edx+ebx+4]
	cmp	eax, ecx
	jae	$L1486
; Line 663
	lea	ecx, DWORD PTR _wrd$[esp+4164]
	push	ecx
	call	_KuxHash2
	shl	eax, 2
; Line 664
	mov	edx, DWORD PTR [eax+ebp]
	add	esp, 4
; Line 665
	test	edx, edx
	jne	SHORT $L1487
; Line 666
	mov	DWORD PTR [eax+ebp], edi
; Line 667
	mov	edx, DWORD PTR [ebp+16384]
; Line 668
	mov	eax, DWORD PTR tv1826[esp+4164]
	mov	DWORD PTR [edi], edx
	add	edi, 4
; Line 669
	mov	ecx, ebx
	mov	edx, ecx
	shr	ecx, 2
	mov	DWORD PTR tv1847[esp+4164], edi
	mov	DWORD PTR [eax], edi
	lea	esi, DWORD PTR _wrd$[esp+4164]
	rep movsd
```

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```
	mov	ecx, edx
	and	ecx, 3
	rep movsb
	inc	DWORD PTR _WORDcountDistinct$[esp+4164]
; Line 670
	mov	ecx, DWORD PTR tv1847[esp+4164]
	add	ecx, ebx
	mov	DWORD PTR [eax], ecx
; Line 672
	jmp	SHORT $L1491
$L1487:
; Line 673
	mov	DWORD PTR _FoundInLinkedList$[esp+4164], 0
$L1490:
; Line 674
	mov	eax, DWORD PTR _FoundInLinkedList$[esp+4164]
	test	eax, eax
	jne	SHORT $L1491
; Line 675
	mov	ecx, ebx
	lea	edi, DWORD PTR _wrd$[esp+4164]
	lea	esi, DWORD PTR [edx+4]
	xor	eax, eax
	repe cmpsb
	jne	SHORT $L1492
; Line 676
	mov	DWORD PTR _FoundInLinkedList$[esp+4164], 1
; Line 678
	jmp	SHORT $L1493
$L1492:
; Line 679
	mov	eax, DWORD PTR [edx]
; Line 680
	test	eax, eax
	mov	DWORD PTR _PseudoLinkedPointerNEW$[esp+4164], eax
	jne	SHORT $L1862
; Line 681
	mov	ecx, DWORD PTR tv1826[esp+4164]
	mov	eax, DWORD PTR [ecx]
	mov	DWORD PTR [edx], eax
; Line 682
	mov	edx, DWORD PTR [ebp+16384]
	mov	DWORD PTR [eax], edx
; Line 683
	add	eax, 4
	mov	DWORD PTR [ecx], eax
; Line 684
	mov	ecx, ebx
```

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```
        mov     edx, ecx
        shr     ecx, 2
        mov     edi, eax
        lea     esi, DWORD PTR _wrd$[esp+4164]
        rep movsd
        mov     ecx, edx
        and     ecx, 3
        rep movsb
        inc     DWORD PTR _WORDcountDistinct$[esp+4164]
; Line 685
        mov     ecx, DWORD PTR tv1826[esp+4164]
        add     eax, ebx
        mov     DWORD PTR [ecx], eax
        mov     eax, DWORD PTR _PseudoLinkedPointerNEW$[esp+4164]
$L1862:
; Line 687
        mov     edx, eax
$L1493:
; Line 674
        test    edx, edx
        jne     SHORT $L1490
$L1491:
; Line 691
        mov     edx, DWORD PTR tv1826[esp+4164]
        mov     eax, DWORD PTR [edx]
        mov     ecx, DWORD PTR _MAXusedBuffer$[esp+ebx*4+4164]
        lea     ebx, DWORD PTR _MAXusedBuffer$[esp+ebx*4+4164]
        sub     eax, ebp
        cmp     ecx, eax
        jae     SHORT $L1496
        mov     DWORD PTR [ebx], eax
$L1496:
; Line 709
        mov     ebp, DWORD PTR _fp_inLINE$[esp+4164]
        mov     edi, DWORD PTR _size_inLINE$[esp+4164]
        xor     ebx, ebx
$L1458:
        mov     eax, DWORD PTR _i$[esp+4164]
        inc     eax
        cmp     eax, edi
        mov     DWORD PTR _i$[esp+4164], eax
        jb      $L1873
$L1870:
```

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