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## Solution

**Simulator:** pagetrans.py

**Command:** python ./pagetrans.py -a 16k -p 512 -r 128k -s 104

**Solution:**

Virtual Address Trace

VA 0x000009db (decimal: 2523) →	<b>invalid</b> [VPN= 4]
VA 0x000000a0 (decimal: 160) →	<b>RA 0x0001bea0</b> [VPN= 0]
VA 0x00003411 (decimal: 13329) →	<b>Invalid</b> [VPN= 26]
VA 0x00000f98 (decimal: 3992) →	<b>RA 0x0000a998</b> [VPN= 7]
VA 0x000004a0 (decimal: 1184) →	<b>Invalid</b> [VPN= 2]

**Simulator:** pagetablesizes.py

**Command:** python ./pagetablesizes.py -v 38 -e 2 -p 2K

**Solution:**

Virtual Address (VA) = [Virtual Page Number (VPN) | Offset (D)]

VA (bits)	VPN (bits)	D (bits)	pte (byte)
<b>38</b>	<b>27</b>	<b>11</b>	<b>2</b>

Calculate (Linear Page Table Size) and write the results in the simplest readable form (e.g. byte, KB, MB, GB, and TB)

**Linear Page Table Size = 256 MB**