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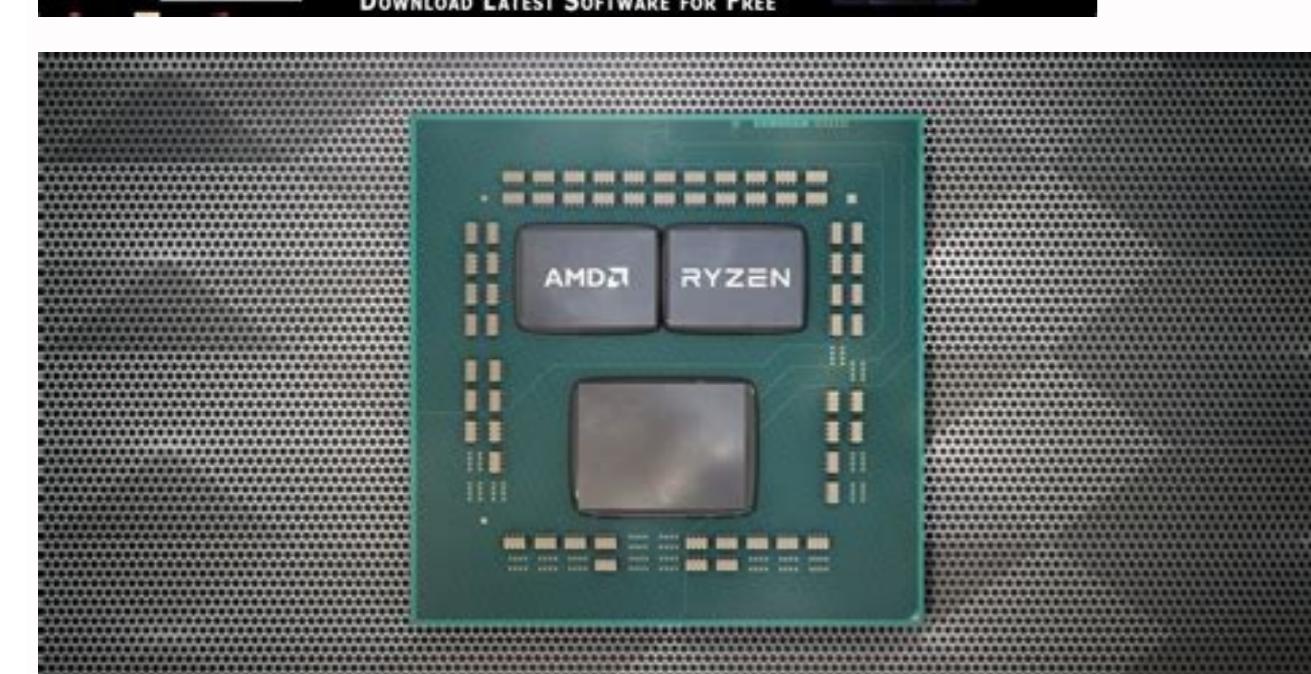
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global trends and performances of acupuncture research. Synchrotron radiation phase-contrast X-ray CT imaging of acupuncture points. Just follow our Installation Assistant and click "Install Windows." On Apple M1 chip-powered Mac computers you can install Windows by following the instructions in this article. Parallels offers exclusive discounts for educational students currently enrolled in a qualified educational institution or professional educators who are currently employed. Retina Display SupportSmart resizing and independent screen resolutions for separate displays. This kind of study was suggested as a unique method for gaining a systematic understanding of acupuncture-meridian-related anatomy in 3D space. One limit of this current research with images of X-ray CT may be the result of difficulties in visualizing the distributions of the blood vessels, muscles, and tendons, which are important anatomical landmarks for positioning certain acupoints. Now you can create a new virtual machine for Mac, including a Windows VM on the Mac. Volume License KeyUnified volume license key, centralized license management and advanced security features are available in Parallels Desktop Business Edition. Most acupoints of the Bladder meridian in this region are distributed over the back down to the posterior aspect of the knee (Fig. And much more... There are several ways to install Windows (or any other operating system) in a virtual machine, and Parallels Desktop makes it easy to get started within minutes. BMC Complement Altern Med, Yin C, Koh H. Color localizations at the acupoints and directional patterns along the meridians were presented at specific depths under the skin by comparisons with the nearby surrounding points. Because the acupoints are distributed on the skin's surface, a constraint should be imposed in such a way that the acupoints reside on the skin's surface. Localization of acupoints on a head based on a 3D virtual body. In: WHO Standard Acupuncture Point Locations in the Western Pacific Region. JAMA. To use Windows from Boot Camp, install Parallels Desktop and follow the Installation Assistant. The CT-scanned images were saved in a DICOM file format with 512x512, 16-bit resolution. Localization of acupuncture points BL25 and BL26 using computed tomography. Korean J Oriental Med. The acupoints on the left hand and the left foot are presented in Figures 7 and 8. What's the original concept of meridian and acupuncture point in Oriental medicine?—a perspective of medical history [in Korean]. The binary images were subsequently inputted to the subroutine for binary dilations with a 3x3 structuring element to fill the holes inside the surface for skin or bones. Defining meridians: A modern basis of understanding. The counting method can be performed by examining the connectivity of voxels with their neighbors and assigning a unique label to each connected set found.8 The connected component-labeling algorithm is recursive and assumes 26-connectivity for the foreground voxels. In Table 1, the forty-two reference points are shown with short descriptions of the anatomical features for their positioning. Information on the M1 experience may be found in this article. Geneva: WHO Western Pacific Region; 2008:1-14 [Google Scholar]6. VM Upload and Deployment - upload and deploy large VM files by converting a VM bundle into a single file. During this process, full advantage was taken of OpenGL's capacity for precise positioning on the skin's surface by rotating and translating the models and by zooming in and out on the models. With the reference points, the positions of nearby acupoints could be calculated based on some formulae that were obtained from the pictorial and the textual descriptions by the WHO.5 Table 2 presents the formulae for the positions of 135 acupoints and shows the proportionalities between any two reference points. Command Line interface also enables additional integrations like Vagrant. 2012;18:120-129 [PubMed] [Google Scholar] Liu H, Shen X, Tang H, Li J, Xiang T, Yu W. The positions of many acupoints in the sacral region depend on the structure of the pelvic bones and the posterior sacral foramina, as shown in Figure 5. Download a free 14-day trial of Parallels Desktop and see if your desired game is supported. The main portions of the acupoints, in which the formulae are applicable, reside on three areas of the body: (1) the top of the head and (2 and 3) the front and the back parts of the trunk. These points account for ~37.4% of all the standardized acupuncture points. Parallels Desktop Pro Edition is packed with extra features, including: More Power: Parallels Desktop Pro Edition gives your virtual machines more processing power, up to 128 GB vRAM and 32 vCPUs per virtual machine. One of the most active research subjects is the human body, and, in medical science, vast amounts of data are being produced in qualitative and quantitative forms of images. 3-D Image Processing Algorithms. For convenience and to avoid computer memory problems, the entire human body was divided into eight parts: (1) head; (2) trunk; (3) pelvis; (4) leg; (5 and 6) left and right hands; and (7 and 8) left and right foot. Install other operating systems, such as versions of Windows, Linux, another copy of macOS* and free virtual appliances—and use them together. 2013;13:132. World Health Organization (WHO) WHO standard acupuncture point location. Groenemeyer D, Zhang L, Schirp S, Baier J. It's fast, it's reliable, and there's no need to futz about with confusing setting or convoluted setup processes."Adrian Kingsley-Hughes, ZDNet "Unlike Apple's Boot Camp, Parallels lets you run both operating systems at the same time."Larry Magid, Forbes "Parallels Desktop is the easiest, fastest, and most tightly integrated app for running Windows apps or the Windows desktop in Apple OS X."Edward Mendelson, PCMag.com "The latest version of Parallels, the popular Windows virtualization tool for Mac OS X, almost feels like it's trolling Apple."Engadget Office 365 IntegrationEnables Word, Excel, or PowerPoint documents in Safari to open in their native Windows Office app. Evid Based Complement Alternat Med. The numbers in the diagrams represent the ratios of the distances between the acupoints and the reference points. The distributions of acupoints on the anterior and the posterior aspects of the trunk show simple patterns, such as a lattice on the skin's surface (Fig. Lee SH, Lee SB. The opacity of OpenGL was used properly in the other parts to visualize the relationships between the acupuncture points and the skeletal structure. The quest for modernization of traditional Chinese medicine. Liu H, Xu J, Li L, Shan B, Nie B, Xue J. 2011;35(3):680-687 [PubMed] [Google Scholar]12. Figure 1 shows 2D side views of the data and a 3D image taken from the 3D viewer of ImageJ (. For construction of the 3D surface models for the skin and the bones, serial DICOM files were transformed to corresponding 8-bit BMP files, which were put in binary form with the threshold values 10 and 110 for skin and bones, respectively. The acupoints on the anterior and the posterior aspects of the trunk are depicted in the projected two-dimensional (2D) plane. Almost a decade ago, computerized three-dimensional (3D) models, such as the VOXEL-MAN system, were introduced as a useful way to localize the acupoints on the head, based on a virtual body.6 The use of such models is expected to advance learning and teaching of acupuncture and to contribute substantially to acupuncture research. In this article, the positioning of all the standardized acupoints over the entire human body is extended to a 3D space. However, if some deviations from coordinate space exist in the midsagittal plane of the body, a proper adjustment can be made in the future. A diagram for positioning acupoints on the corresponding area of the (A) anterior and the (B) posterior aspects of the trunk, and the (C) head. Nikolaidis N, Pitas I, Koo S, Kim Y, Kang S, Choi S. 2013;2013:872142. 2009;2(2):152-158 [PubMed] [Google Scholar]15. Lorenzen W, Cline H. In 3D space, the position of a point can be specified with three values such as the x-, y-, and z-coordinates. J Acupunct Meridian Stud. After the borders of the objects in the serial images had been obtained, the target surface was isolated by using a connected component counting method. Most acupoints in the face and on the side of the head were determined point-by-point following the descriptions used for the skin's surface and the skull's structure. Based on those methods, this research was particularly focused on how to position the anatomical landmarks from the skeletal structure and the skin's surface and how to represent the proportional features between the acupoints and the anatomical landmarks. In 2003, Digital Korean data were constructed at the Catholic Institute for Applied Anatomy, College of Medicine, Catholic University of Korea, in Seoul, Korea. Each body was X-ray scanned from head to foot with a CT machine in 1-mm spatial intervals. The nearby acupoints in the KI and the ST meridians were distributed like a web, connecting the points with specified proportional distances from the anterior median line of the CV meridian. Based on that system, all the position values for the acupoints were determined and/or calculated. The data for the current research were from healthy Korean males with normal body shapes. The video shows a typical experience on a Mac powered by the Intel processor. Han J, Ho Y. Instant AccessLaunch and access Windows applications right from the Mac Dock. 2001;5:221-228 [PubMed] [Google Scholar]3. It's like two computers in one! Open Windows applications side by side with your macOS applications, without having to restart your Mac Copy and paste text or drag and drop objects between Mac and Windows. The data were managed and distributed by the Korean Institute of Science and Technology Information (KISTI).7 These data, developed through the use of CT, are composed of numerous sets of images from hundreds of cadavers, as well from 6 living human beings (visit:). If you have already installed Windows 10, Windows 8, or Windows 7 on your Mac using Boot Camp, you can set Parallels Desktop to run Windows from the Boot Camp Partition or import Windows 7 into your data from Boot Camp into Parallels Desktop as a new virtual machine. Using microPET imaging in quantitative verification of the acupuncture effect in ischemia stroke treatment. Zheng L, Qin B, Zhuang T, Tiebe U, Höhne K. Open Parallels Desktop app from the Applications folder and choose File » New. Zhang D, Yan X, Zhang X, et al. macOS Monterey 12 (when released), macOS Big Sur 11, macOS Catalina 10.15, macOS Mojave 10.14, or macOS High Sierra 10.13 Apple M1, M1 Pro, and M1 Max chips, Intel Core i3, Core i7, Core i9, Intel Core M or Xeon processor 600 MB for Parallels Desktop application installation Apple M1, M1 Pro, and M1 Max chips, Intel, AMD Radeon, or NVIDIA 4GB of RAM *Features that are only available on Mac computers with Intel processors are marked with an asterisk (*). In this video, you'll find the playback speed has increased. 2005;14:137-150 [PubMed] [Google Scholar]11. Computer Graphics. After overlapping the original 8-bit gray BMP files with those of boundary 2-bit black-and-white images for the head, the Marching Cube algorithm was applied for polygonizing the surface with triangle-shaped grids.9 Smoothed surfaces were obtained by calculating vectors normal to the surfaces of the triangles. For the head, half of the skull was exposed through the opaque skin for a visual effect. 2005;23:1-9 [Google Scholar]7. All the acupoints on the head are depicted from various views, as shown in Figure 3. Travel ModeExtend battery life while away from a power source. The proportionalities between the acupoints are pictorially presented in Figure 2. On my MacBook Air, I'm up and running in Windows six seconds after I double-click the Parallels icon."David Pogue, The New York Times "Of all the ways to run Windows on a Mac, Parallels Desktop is my favorite because it just works. 2009;15(12):1285-1291 [PubMed] [Google Scholar]19. [PMC free article] [PubMed] [Google Scholar]16. Get Windows from Microsoft or install freely available operating systems such as Ubuntu, Fedora, or other Linux systems supported by Parallels Desktop. [PMC free article] [PubMed] [Google Scholar]4. 1998;280:1518-1524 [PubMed] [Google Scholar]5. About 37% of the 361 standardized acupoints were automatically linked with the reference points, the reference points accounted for 11% of the 361 acupoints, and the remaining acupoints (52%) were positioned point-by-point using the OpenGL 3D graphics libraries. Command Line Interface - Use Command Line Interface tools to control Parallels Desktop and manage VMs, including their settings and configuration. Including the depth information at the acupuncture points, precise positioning may be possible so that meridians can be used as drug-delivery pathways for pharmacoaupuncture therapy. This screenshot illustrates the installation experience on an Intel-powered Mac and there is a separate article with installation information for the Apple M1 chip-powered Mac. 24/7 SupportPremium 24/7 phone, email and social support after activation. The meridians have been considered to reflect a systematic network of empirical knowledge that functions as the basis for acupuncture treatment.10 The therapeutic effects of acupuncture meridian treatments are being increasingly accepted worldwide,11 so it is imperative to elucidate the mechanism of acupuncture's effects in terms of modern scientific concepts and terminologies.12,13 Recently, many research laboratories, as well as clinical institutes and hospitals, have been carrying out acupuncture research with various types of setups equipped with modern instruments and advanced technologies, such as magnetic resonance imaging (MRI), functional MRI, synchrotron radiation phase-contrast X-ray CT imaging, and positron emission tomography.14-17 In the clinical research, imaging from CT has been used to investigate the acupuncture points in relation to the body's anatomical landmarks and structures.18,19 A clinical study was performed to investigate acupuncture treatment regimens for a specific disease, low-back pain, and that study suggested a new model for the visualization of a data-driven 3D meridian system of biomedical information about meridians and acupoints.20 All this information can be used to formulate a modern basis for understanding the structure and the function of the acupuncture meridian network on the human body. The partial positioning of acupuncture points and the visualization of the blood-vessel networks under the skin have been achieved with the image datasets of the Visible Human Project.21 With the digitalized anatomical cryosection images and the CT images of humans, the color variations under the skin were investigated at the acupoints on the anterior and the posterior aspects of the trunk. Need Parallels Desktop for your team? The current authors used the Digital Korean data that were produced and distributed by the Catholic Institute for Applied Anatomy, College of Medicine, Catholic University of Korea and the Korean Institute of Science and Technology Information. No financial conflicts of interest exist.1. Höhne K, Pfleßner P, Pommert A, et al. 2010;10(5):416-421 [Google Scholar]8. Save with Student Edition (Valid student verification required) "Why make a choice between Windows and Mac when you can have both?" "Parallels works great on both my Intel and M1 Mac computers!" "VM heaven" "No Better Windows VM" "Excellent Desktop Virtualization Overall, Easy to Use" "Parallels made the transition easy from Windows to Mac!" "Fully satisfied with Parallels!" "Best Software" "Easy to use product on both Mac and Windows. 2011;401(3):803-808 [PubMed] [Google Scholar]17. Run multiple OSs at the same time, all on your Mac. Magnetic resonance imaging and acupuncture: A feasibility study on the migration of tracers after injection at acupoints of small animals. 1995;1:506-511 [PubMed] [Google Scholar]2. Kim J, Kang D, Soh K, Kim S, J Korea Contents Natl Med. One of the most frequently used acupoints is ST 36 (Zusanli) on the anterior aspect of the leg between the two reference acupoints ST 35 and ST 41. Acupuncture meridians in traditional Oriental medicine are known to be channels connecting specific points on the surface of the body to corresponding internal organs. National Institutes of Health (NIH) Consensus Development Panel on Acupuncture Acupuncture—NIH consensus conference. Creating a high-resolution spatial/symbolic model of the inner organs based on the visible human. Transfer all your data from a PC and use it on your Mac.* Easily share files, devices, and other resources between Windows and Mac. Parallels Desktop even has a virtual machine setting dedicated to gaming to optimize performance. Image and Vision Computing. 6). The method can also be used as a computerized medical tool for designing personalized medicine, considering the condition of each patient. Transfer is only available for Intel-powered Mac and PC. With Parallels Desktop, you can switch between Mac and Windows without ever needing to reboot your computer. The third limitation is that the 3D correlations do not, at this stage, explain the deep extensions of the meridian systems as described in classical or empirical acupuncture.3D mapping of the human body by X-ray CT provides a novel method of tracing the meridian systems, hence providing useful knowledge toward the modernization of clinical acupuncture practice. The author (J.K.) would like to thank K.S. Soh, PhD, and M.S. Chung, MD, PhD, for helpful advice. Run Windows games and other 3D applications. Med. The right side of the head's skin was made to be nonopaque so that the skull's structure could be seen. Play your Windows-only game on a Mac using Parallels Desktop. Production and usage of Korean human information in KISTI. fMRI evidence of acupoints specificity in two adjacent acupoints. New York: John Wiley & Sons; 2000 [Google Scholar]9. The current authors contracted with the KISTI and obtained permission to download the image data for use. 2013;3:1070. Zooming in and out, translating, and 3D rotating of the model were also performed by using the conventional graphic libraries from OpenGL. For a given part of the body, the Cartesian coordinate system with its origin at the center of mass was chosen for the 3D image of the model. Delighted with this software! To add Windows, Linux, or another operating system to your Mac, Parallels Desktop creates a virtual machine (VM)—a virtual PC inside your Mac. Image Anal. Save Disk SpaceGet the most out of your Mac with automatic Disk Space optimization and Free Up Disk Space assistant. Xu Q, Bauer R, Hendry B, et al. Based on the projective 2D descriptions of the standard acupuncture points, the volumetric 3D acupoint model was developed; it was extracted from the X-ray CT images. Conclusions: This modality for positioning acupoints may modernize acupuncture research and enable acupuncture treatments to be more personalized. Key Words: : Acupuncture Points, Digital Korean Data, X-Ray Computed Tomography, Surface Reconstruction, 3-Dimensional Image ProcessRecent advances in technology in the computer hardware and software industries are now making it possible to address many issues that could not be addressed several decades ago. The obtained 3D surface models were made viewable on a computer by using the OpenGL program. All the processes for getting 3D surface models were carried out with a Microsoft Visual Studio 2008 software package installed on a personal computer with a Windows 7, 64-bit operating system. If you purchased this from another retailer, please check their return policy. You can then install Windows on the virtual machine, just as you would install any operating system on a regular computer. Kim J, Bae K, Hong K, Han S, Soh K. This positioning method can be applied to any group of images taken from other techniques, such as magnetic resonance tomography, and/or from imaging tools combined with CT. 1 Nano Primo Research Center, Advanced Institutes of Convergence Technology, Seoul National University, Suwon, Republic of Korea. 2 Pharmacopuncture Medical Research Center, Korean Pharmacopuncture Institute, Seoul, Republic of Korea. Find articles by Jungdae Kim2Pharmacopuncture Medical Research Center, Korean Pharmacopuncture Institute, Seoul, Republic of Korea. Find articles by Dae-In KangAuthorCopyright 2014, Mary Ann Liebert, Inc. Objective: The goal of this research was to position all the standardized 361 acupuncture points on the entire human body based on a 3-dimensional (3D) virtual body. Materials and Methods: Digital data from a healthy Korean male with a normal body shape were obtained in the form of cross-sectional images generated by X-ray computed tomography (CT), and the 3D models for the bones and the skin's surface were created through the image-processing steps. Results: The reference points or the landmarks were positioned based on the standard descriptions of the acupoints, and the formulae for the proportionalities between the acupoints and the reference points were presented. In addition, many novel ways of representing medical knowledge have been introduced by integrating concepts of computer graphics and artificial intelligence as the data on the human body have accumulated, and medical knowledge definitely includes therapeutic experiences with old traditional medical systems. 1,2 Recently, traditional medicine has set off in a quest for modernization through collaborations between different regions (interregional), different business sectors (intersectoral), and different areas of knowledge (interdisciplinary). 3 As one of major treatment modalities in traditional medicine, acupuncture has been accepted for thousands of years in East Asia, and uses of this modality have spread all over the world. 4 Although acupuncture has become a global therapeutic method in recent decades, controversies have been reported among acupuncturists regarding the locations of approximately one-fourth of the standard acupuncture points, raising doubts and uncertainty concerning the efficacy and the safety of acupuncture treatments, as well as causing difficulties in the fields of acupuncture research and education. 5 To meet a growing international demand for standardization of acupuncture-point locations for education, research, and clinical practice, the World Health Organization (WHO) Western Pacific Regional Office started a project to reach a consensus on acupuncture-point locations. 5 As a final result of the project, guidelines for the locations of the standard acupuncture points stipulated the methodology to be used to locate 361 acupoints on the skin's surface of the human body. The lack of consensus on the specific locations of the acupoints may result from a lack of proper tools for specifying the acupoints. The acupoints in these areas can be automatically positioned by determining the reference points. The nearby acupoints in the BL meridian were also distributed along the posterior median line with the GV acupoints, as shown in Figure 4. The acupoints in the other areas—such as the pelvis, leg, hands, and feet—were also positioned on the 3D virtual body. Just three of them (Yintang, apex of the patella [AP], and medial malleolus [MM]) do not have corresponding acupoints, but they show anatomical structures for landmarks on the body. Anal Bioanal Chem. You can provide your own Microsoft Windows license key, purchase Windows directly from within Parallels Desktop, or transfer an existing Boot Camp partition with Windows already installed. Longhurst J. [PMC free article] [PubMed] [Google Scholar]21. Using Korean digital data, a 3D virtual body was constructed with a skeletal structure and a skin surface in space from cross-sectional images generated by using computed tomography (CT). Bongham circulatory system as an extension of acupuncture meridians. Visualization of the meridian system based on biomedical information about acupuncture usually describe the positions of acupoints in a two-dimensional (2D) projected plane. For positioning acupoints in the other areas without formulae (51.8% of all acupoints), the same method was applied point-by-point as that for the case of determining the reference points. Formulae for Positioning Acupoints with Reference PointsMeridianFormula for acupointsCVCV 3=(4xCV 2+CV 8)/5CV 4=(3xCV 2+2xCV 8)/5CV 5=(2xCV 2+3xCV 8)/5CV 6=(1xCV 2+3.5xCV 8)/5CV 7=(7xCV 8+CV 16)/8CV 8=(6xCV 8+2xCV 16)/8CV 9=(5xCV 8+3xCV 16)/8CV 10=(4xCV 8+4xCV 16)/8CV 11=(5xCV 8+3xCV 16)/8CV 12=(4xCV 8+5xCV 16)/8CV 13=(3xCV 8+5xCV 16)/8CV 14=(2xCV 8+6xCV 16)/8CV 15=(CV 8+7xCV 16)/8CV 16=(7xCV 16+2xCV 22)/9CV 17=(CV 16+4xCV 22)/9CV 18=(5xCV 16+4xCV 22)/9CV 19=(3xCV 16+6xCV 22)/9CV 20=(2xCV 16+7xCV 22)/9CV 21=(CV 16+8xCV 22)/9CV 22=ST 19y=ST 17y/2, ST 19z=CV 14zST 20y=ST 17y/2, ST 20z=CV 13zST 21y=ST 17y/2, ST 21z=CV 12zST 22y=ST 17y/2, ST 22z=CV 11zST 23y=ST 17y/2, ST 23z=CV 10zST 24y=ST 17y/2, ST 24z=CV 9zST 25y=ST 17y/2, ST 25z=CV 8zST 26y=ST 17y/2, ST 26z=CV 7zST 27y=ST 17y/2, ST 27z=CV 5zST 28y=ST 17y/2, ST 28z=CV 4zST 29y=ST 17y/2, ST 29z=CV 3zST 30y=ST 17y/2, ST 30z=CV 2zST 36=(13xCV 35+3xCV 41)/16ST 37=(10xCV 35+6xCV 41)/16ST 40=(8xCV 35+8xCV 41)/16ST 42=(8xCV 35+8xCV 41)/16KIKI 7=(13zK1 3+2zK1 10)/15KIKI 8=(10zK1 3+5zK1 10)/15KIKI 9=(10zK1 3+5zK1 10)/15KIKI 11=CV 2zK1 12y=CV 3y+0.5Bcun, KI 12z=CV 3zK1 13y=CV 4y+0.5Bcun, KI 13z=CV 4zK1 14y=CV 5y+0.5Bcun, KI 14z=CV 5zK1 15y=CV 6y+0.5Bcun, KI 15z=CV 7zK1 16y=CV 7y+0.5Bcun, KI 16z=CV 8zK1 17y=CV 8y+0.5Bcun, KI 17z=CV 9zK1 18y=CV 9y+0.5Bcun, KI 18z=CV 10zK1 19y=CV 10y+0.5Bcun, KI 19z=CV 11zK1 20y=CV 11y+0.5Bcun, KI 20z=CV 12zK1 21y=CV 12y+0.5Bcun, KI 21z=CV 13zK1 22y=CV 13y+0.5Bcun, KI 22z=CV 14zK1 23y=CV 14y+0.5Bcun, KI 23z=CV 15zK1 24y=CV 15y+0.5Bcun, KI 24z=CV 16zK1 25y=CV 16y+0.5Bcun, KI 25z=CV 17zK1 26y=CV 17y+0.5Bcun, KI 26z=CV 18zK1 27y=CV 18y+0.5Bcun, KI 27z=CV 19zK1 28y=CV 19y+0.5Bcun, KI 28z=CV 20zK1 29y=CV 20y+0.5Bcun, KI 29z=CV 21zK1 30y=CV 21y+0.5Bcun, KI 30z=CV 22zK1 31y=CV 22y+0.5Bcun, KI 31z=CV 23zK1 32y=CV 23y+0.5Bcun, KI 32z=CV 24zK1 33y=CV 24y+0.5Bcun, KI 33z=CV 25zK1 34y=CV 25y+0.5Bcun, KI 34z=CV 26zK1 35y=CV 26y+0.5Bcun, KI 35z=CV 27zK1 36y=CV 27y+0.5Bcun, KI 36z=CV 28zK1 37y=CV 28y+0.5Bcun, KI 37z=CV 29zK1 38y=CV 29y+0.5Bcun, KI 38z=CV 30zK1 39y=CV 30y+0.5Bcun, KI 39z=CV 31zK1 40y=CV 31y+0.5Bcun, KI 40z=CV 32zK1 41y=CV 32y+0.5Bcun, KI 41z=CV 33zK1 42y=CV 33y+0.5Bcun, KI 42z=CV 34zK1 43y=CV 34y+0.5Bcun, KI 43z=CV 35zK1 44y=CV 35y+0.5Bcun, KI 44z=CV 36zK1 45y=CV 36y+0.5Bcun, KI 45z=CV 37zK1 46y=CV 37y+0.5Bcun, KI 46z=CV 38zK1 47y=CV 38y+0.5Bcun, KI 47z=CV 39zK1 48y=CV 39y+0.5Bcun, KI 48z=CV 40zK1 49y=CV 40y+0.5Bcun, KI 49z=CV 41zK1 50y=CV 41y+0.5Bcun, KI 50z=CV 42zK1 51y=CV 42y+0.5Bcun, KI 51z=CV 43zK1 52y=CV 43y+0.5Bcun, KI 52z=CV 44zK1 53y=CV 44y+0.5Bcun, KI 53z=CV 45zK1 54y=CV 45y+0.5Bcun, KI 54z=CV 46zK1 55y=CV 46y+0.5Bcun, KI 55z=CV 47zK1 56y=CV 47y+0.5Bcun, KI 56z=CV 48zK1 57y=CV 48y+0.5Bcun, KI 57z=CV 49zK1 58y=CV 49y+0.5Bcun, KI 58z=CV 50zK1 59y=CV 50y+0.5Bcun, KI 59z=CV 51zK1 60y=CV 51y+0.5Bcun, KI 60z=CV 52zK1 61y=CV 52y+0.5Bcun, KI 61z=CV 53zK1 62y=CV 53y+0.5Bcun, KI 62z=CV 54zK1 63y=CV 54y+0.5Bcun, KI 63z=CV 55zK1 64y=CV 55y+0.5Bcun, K

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