

crossed under one, tailor like, or with legs extended, or one of them extended and the other folded under.

See man in what is called the tug of war, how his fulcrum is the very ground he stands on and against which he reacts by mere friction of the surface, with body leaning as far as possible towards the horizontal.

There are other actions of the human machine where its variety of adaptation to everything that is required to be done is made apparent, as where he will sometimes in the absence of an implement for the purpose, break a piece of wood resting on one or two points of support by jumping up and then coming down upon it with the whole left of the body, or thus bend a piece of iron, or stomp down and consolidate earth or snow to reduce it to less bulk, thus acting as a *beetle*, or a *rammer* or a *pounder* ; or he will while standing on one leg, lift the other and break a wooden bar across his knee or so bend an iron one.

See how a man can keep his perpendicular on the deck of a surging vessel. He can on a horse or charger, guide him with one hand, spur him into action with his feet while wielding the sword or javelin with the other ; and one need not be reminded of all that a man can do as an acrobat, a contortionist, a mimic of men and animals. He can *dive* into deep water, *climb* a mountain or a tree, thus bringing into play all his energies and in turn every component of the human mechanism.

Again there is not a motion or act imaginable but what he is capable of, and without entering into a consideration of his chemical laboratory, the stomach and the phenomena of digestion, the elaboration of his life giving and sustaining fluids which pertain more directly to the domain of Physiology to treat of ; it may be said, that his vascular system is absolutely akin to an *aqueduct*, delivering as it does, not by gravitation but by *pumpage*, from a central station the pure or arterial fluid to every portion of the system, the most remote from the heart, the most minute, and on return of this by *drainage* towards the heart again after it has left its vivifying elements behind it and has become polluted with foul matter, it is sent away on its mission of purification to the lungs as already slated and where by endosmose and exosmose it undergoes a process of *filtration*, as does water through a bed of sand, leaving its impurities, or bacteria behind it. And it posses-